

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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C-O-N-F-I-D-E-N-T-I-A-L

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COUNTRY China

REPORT

SUBJECT Chinese Communist Export Goods

DATE DISTR. 12 September 1953

(CATALOGUES OF MACHINES
FOR SALE)

NO. PAGES 2

REQUIREMENT NO. PD

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DATE OF INFO.

REFERENCES

PLACE & DATE ACQ.

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE

Communist China supplied the following illustrated pamphlets, in English, on various goods available for export:

- a. Products exported by the China National Machinery Import Corporation: diesel engines (5-hp., 20-hp.), vertical four-stroke diesel engines (Models H160, H270, A160, A350, and B160), diesel generating sets (5.8-kw., 12-kw., 20-kw., 30-kw., 40-kw., 56-kw., 84-kw.), d.c. generator and a.c. motor set, gasoline generating sets (7-kw., 10-kw.), three-phase induction motors (J, JO, and JR types), three-phase commutator-type variable-speed motors, oil-immersed rotor starters, oil-immersed power transformer (Model W), arc welders (types A-1-50, AFA-320-1, and BS-330), double-housing planer (Models M210 and M215), shaper (Model S605), lathes (Models C91, C112, C218L-1, C356, C512, C616, C620, C620-1, engine lathes (130 x 800 mm.), bench lathe (114 x 550 mm.), Ming Ching lathes, hacksaw machine Model G72, gear-shaping machines (Models J38 and J54), cylindrical grinding machines (Models M115, M125, and M125K), hydraulic internal grinders (Models M210 and M220), tool grinder Model M6250K, crankshaft-grinding machines (Models M3221, M3225, M3230), horizontal boring, drilling and milling machines (Models T611 and T68), portable boring machine Model T51, vertical and horizontal milling machines (Models K52, K62, K61A, K62A, K62), three-dimensional pantograph engraving machine Model M420, drilling machines (Models Z32K, Z33, Z512, Z518, Z525, Z535), rock drill Model O1-30, stoper Model O1-45, pneumatic drills and hammers, pneumatic grinders (Models O6-150 and O6-60), pneumatic sand rammer Model 10-11, drill-bit forging machine Model H21-90, jaw and roller crushers, ball mill, disc disintegrator Model 822-175, slotting machine Model 7417, air compressors (3-hp., 6-hp., 15-hp., 52-hp., 81-hp., 100-hp., 110-hp.), mobile air compressor set, spiral friction press, thread-rolling machine, thread-cutting machine, oil circuit breaker, graphite electrodes, and lightning arrestors. (51 leaflets and brochures)
- b. Products exported by the China National Transport Machinery Import Corporation: machines for extracting vegetable oils (pre-heater, crushing roller mills, cake crusher, oil expellers), printing machinery, textile machinery (calender, yarn-mercerizing machine,

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STATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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Distribution distribution indicated by "T", Field distribution by "F".

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hydro extractor, 20-roller raising machine, winding machines, knitting machines, hosiery machines, lockstitch looper, industrial sewing machine, nail-making and wire-drawing machinery, gravel sorter, concrete mixer, stucco mixer, ammonia compressors, cigarette machine, and hard-candy machine. (34 leaflets and catalogs)

- c. Products exported by the China National Metals Import Corporation: hot-rolled steel bars and sections. (1 catalog)
- d. Products exported by the China National Native Produce Export Corporation: human hair products, including hairnets supplied by the Tsingtao Art and Craft Export Company, 14 Pao Ting Road, Tsingtao. (1 leaflet)
- e. Products exported by the China National Silk Corporation: embroidered silk blouses. (1 catalog)
- f. A catalog of Peking handicrafts. (1 catalog)

The catalogs listed, unclassified when detached from this report, are available in the Library. (119 items)

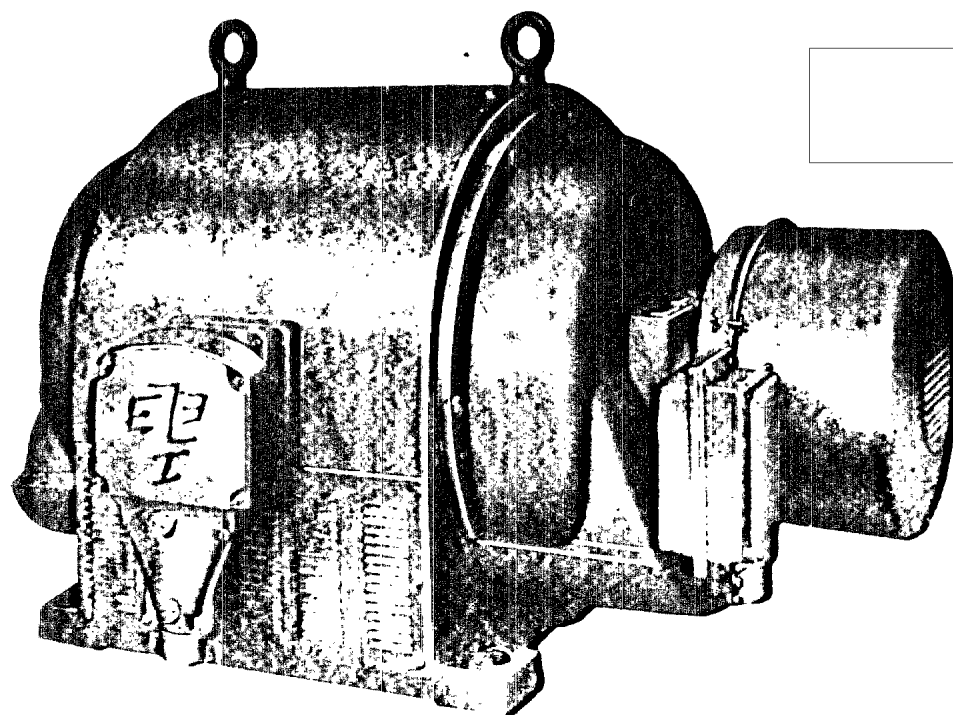
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三相捲線型感應電動機

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(仿蘇聯ΦAMCO系列)



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本系列電動機係仿蘇聯ΦAMCO系列製造，適用於各種旋轉與制動，如帶石、石及其他工業的設備中。

主 要 規 格

功率範圍 140~1250 瓩
 同期轉速 1500, 1000, 750 及 500 轉/分
 電壓 1000, 1000 伏
 週率 50 週/秒

本電動機在室溫為攝氏35°滿載出力時，其溫升限度合於蘇聯國家標準ГОСТ 183-41之規定。

本系列電動機是防護式結構，如在潮濕有灰塵、有酸、或有其他腐蝕性的蒸汽的場所用管道通氣時，則室溫可稍高於攝氏35°。

本電動機轉子係捲線型，可在轉子線路內，加用變阻器，以為變速使用。

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普 通 車 床

(仿蘇聯 1616 型)

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ENGINE LATHE

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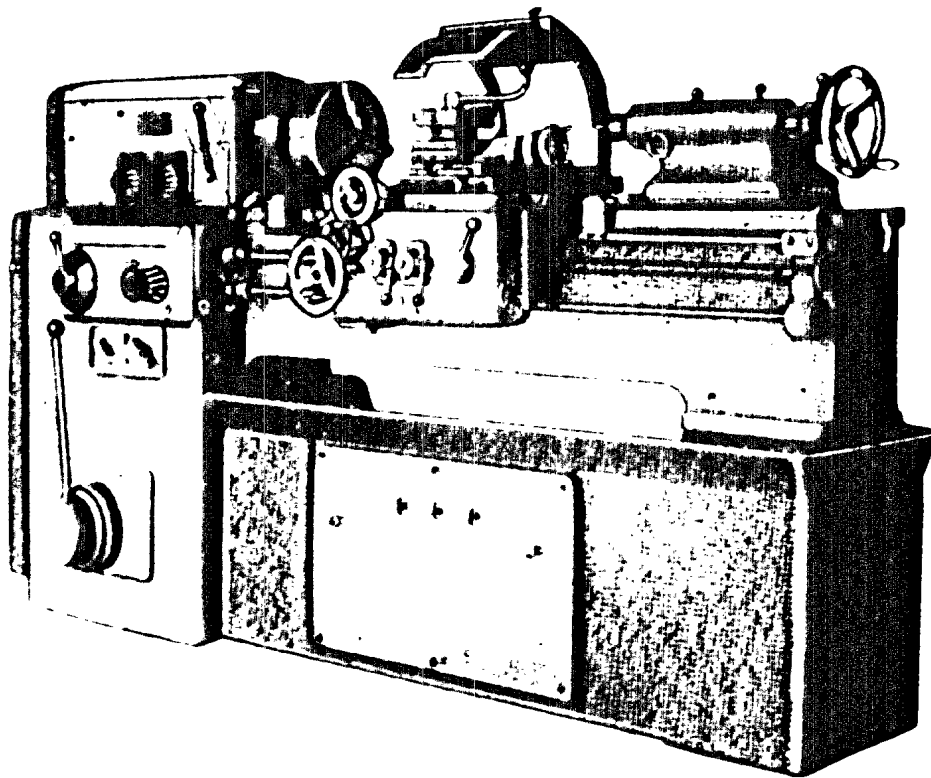
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Office of the American Embassy
Damascus, Syria

普通車床

(仿蘇聯 1616 型)



本機係仿蘇聯 1616 型普通車床製造

本機適用於在頂尖圓或半圓上作各種車削工作，並能車製各種公制、模數及英制螺紋。

機床特點是：結構堅固，主軸轉速較高，及操作方便。

主軸轉速用裝在床身底座內的變速箱及床頭箱的跨輪控制。送刀量和車削螺紋大小則由送刀箱及交換齒輪來調整。

溜板箱內設有聯鎖裝置，以避免絲槓和光槓同時啮合。

機床裝有防護裝置，保證高速切削時的安全。

機床附件有：撥盤，三爪卡盤，中心架，跟刀架及頂尖等。

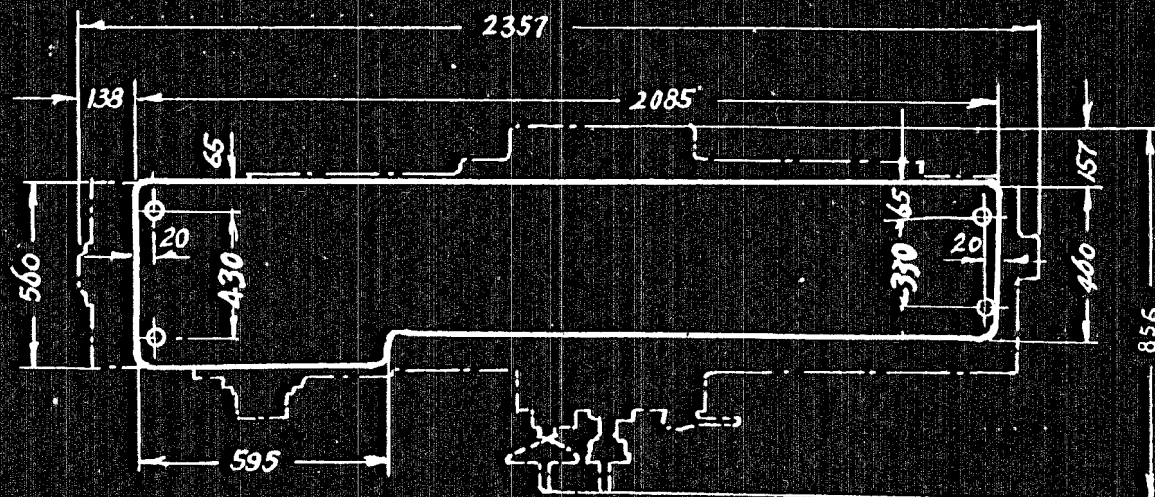
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主 要 規 格

中心高 160 公厘
 中心距 750 公厘
 最大加工直徑：
 在刀架上部以上 175 公厘
 在床面以上 320 公厘
 車削螺紋：
 公制螺紋的螺距 0.5—9 公厘
 英制螺紋每吋牙數 38—2
 模數螺紋的模數 0.5—9
 刀架最大移動距離（機動及手動）：
 縱向 850 公厘
 橫向 210 公厘
 裝刀支承面到中心線的高度 20 公厘
 頂尖中心線到刀夾外緣的最大距離 185 公厘
 裝刀最大尺寸（寬×高） 25×20 公厘
 主軸孔徑 30 公厘
 主軸孔錐度 莫氏 5 號

頂尖套孔錐度 莫氏 4 號
 頂尖套最大移動距離 95 公厘
 尾座最大橫向移動距離 士10 公厘
 主軸轉速種數（正轉及反轉） 12
 主軸轉速範圍 44—1980 轉/分
 刀架縱向及橫向送刀量種數 140
 主軸每轉刀架送刀量範圍：
 縱向 0.06—3.36 公厘
 橫向 0.044—2.46 公厘
 三相交流電動機：
 主傳動用：
 功率 4.3 瓩
 轉速 1450 轉/分
 冷卻液泵用：
 功率 0.1 瓩
 轉速 2800 轉/分
 外形尺寸（長×寬×高）
 2357×856×1275 公厘
 機床淨重 約 1950 公斤



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ENGINE LATHE

This machine is manufactured after the Soviet Engine Lathe Model 1616, capable for turning and threading works held between centers or in chuck. Rigid construction high spindle speed and ease of operation are the outstanding features.

Speed changes are obtained through gear trains in the lower gear box within the frame and in headstock, a wide range of feeds and threads are obtained through feed box and change gears.

Interlocking device within apron prevents the engagement of leadscrew and feed rod at the same time.

The machine is equipped with chip protector for safty working at high speed cutting.

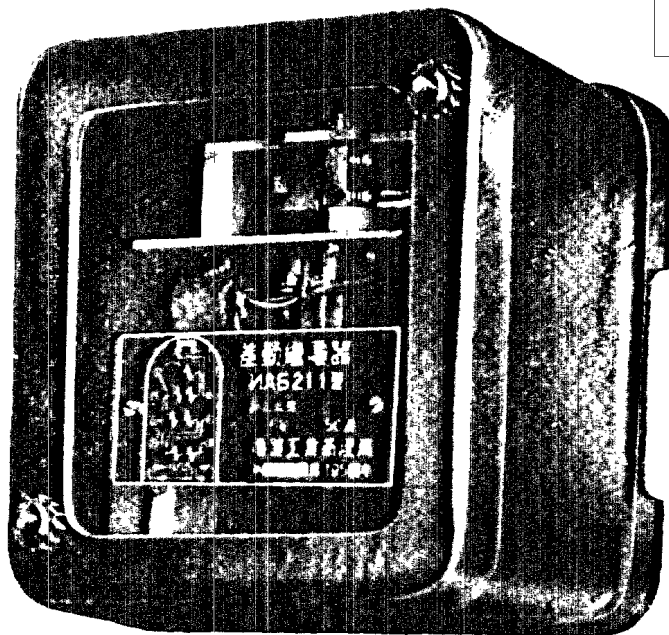
Equipment: Face plate, 3-jaw chuck, steady rest, follow rest and centers.

MAIN SPECIFICATIONS

Height of center, mm.	160	Taper spindle of tail stock	Morse No. 4
Distance between centers, mm.	750	Maximum travel of spindle of tail stock, mm.	95
Swing over cross slide, mm.	175	Side set of tail stock, mm.	± 10
Swing over bed, mm.	320	Number of spindle speeds (forward and reverse)	12
Range of threading:		Range of spindle speeds, R.P.M.	44—1980
Metric, pitch in mm.	0.5—9	Number of longitudinal and cross feeds	140
Whitworth, threads per inch	38—2	Range of feed per revolution of spindle:	
Module	0.5—9	Longitudinal	0.06—3.36
Maximum travel of carriage (power feed and manual):		Cross	0.444—2.46
Longitudinal, mm.	850	Main drive motor, 3-phase:	
Cross, mm.	210	Power rating, kw.	4.3
Maximum distance between supporting surface of tool holder and center line, mm.	20	Speed, R.P.M.	1450
Maximum distance from outer edge of tool holder to center line, mm.	185	Coolant pump motor, 3-phase:	
Maximum size of tool, mm.	25 × 20	Power rating, kw.	0.1
Spindle bore, mm.	30	Speed, R.P.M.	2800
Taper of spindle bore	Morse No. 5	Overall dimensions (length × width × height), mm.	2357 × 856 × 1275
		Net weight, kg.	Approx 1950

差 動 繼 電 器

(仿 蘇 聯 ИДБ-211 型)



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本型差動繼電器係仿蘇聯ИДБ-211型製造，為保護雙線接電力變壓器之用。繼電器的額定電流為5安（50週秒），最小起動電流為2.5安，所需功率在電流為4安時，不超過5伏安。

繼電器係由一個圓筒形鋁質轉子，一個四極感應磁路及一對常開觸頭，所組成。

繼電器裝於金屬壳內，前面鑲有玻璃。與繼電器配合使用的中間變流器係裝在一個膠木盒內。

繼電器可供前面或後面接線，以便安裝於垂直的配電板上。

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DIFFERENTIAL RELAY

This differential relay is manufactured after the Soviet Model ИДБ-211. It is made for protecting double winding power transformers.

Rated current of the relay is 5 amp. (50 c/s) with minimum operating current of 2.5 amp. Power required is less than 5 va. at 4 amp.

It is composed of a cylindrical aluminum rotor, a four-pole flux-path stator, and a pair of normally open contacts.

It is enclosed in a metal case with glass window in the front. The intermediate transformer associated with this relay is fixed in a bakelite box.

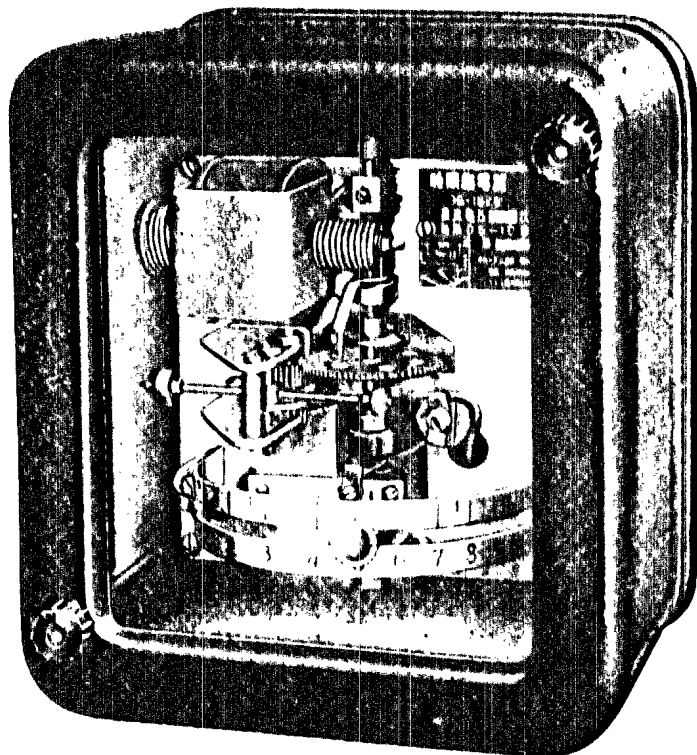
There are front and rear connections on this relay so that it can be mounted on vertical switchboard.

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時 間 繼 電 器

(仿蘇聯 9B-¹⁸⁰/₂₀₀ 型)



25X1

本系列時間繼電器係仿照蘇聯 9B-¹⁸⁰/₂₀₀ 型系列製造。為保護電機，變壓器的延時輔助元件。

9B-180 系列用獨立的直流電源操作；9B-200 系列可用50週波的交流電源操作。

主 要 規 格

9B-180 系列:

額定電壓 . . . 12, 24, 48, 110 及 210 伏
延時調整範圍 0.25 ~ 10 秒
線圈消耗功率 40 瓦

9B-200 系列:

額定電壓 . . . 110, 127, 220 及 380 伏
延時調整範圍 0.25 ~ 10 秒
線圈消耗功率 70 伏安

繼電器分為板前接線或板後接線兩種。

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TIME RELAY

These two series are manufactured after the Soviet Model ΘB -¹⁸⁰/₂₀₀ Time Relay.

They are made as safe-guard auxiliaries for generators and transformers.

Relay of series ΘB -180 is operated by an independent D.C. source; relay of series ΘB -200 can be operated by A.C. source of 50 c/s.

MAIN SPECIFICATIONS

ΘB -180 series:

Rated voltage, V.	12, 24, 48, 100 and 220
Range of time relay, sec.	0.25-10
Power consumption of coil, w.	40

ΘB -200 series:

Rated voltage, V.	110, 127, 220 and 380
Range of time relay, sec.	0.25-10
Power consumption of coil, VA.	70

Relays with front connections or back connections can be supplied.

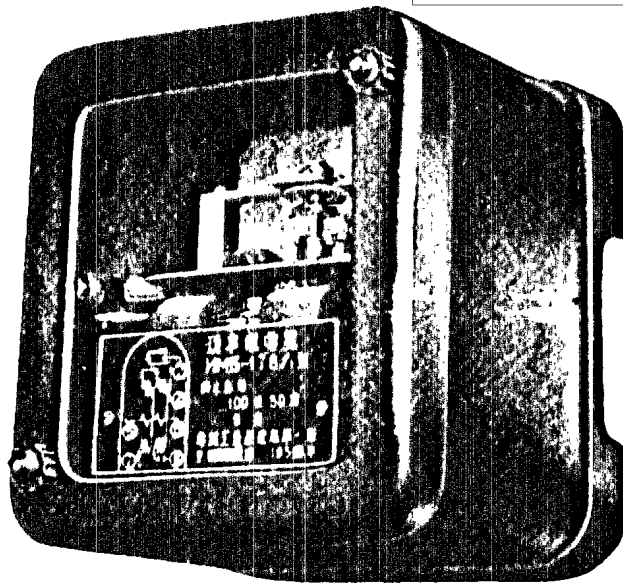
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功 率 繼 電 器

(仿 蘇 聯 HMB-170 型)

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此功率繼電器係仿蘇聯 HMB—170 型製造，依其用途可分為二種：

1. HMB—171/1 型保護相間短路用。
2. HMB—178-1 型保護接地用。

繼電器的額定數據為 110 伏 5 安，50 週/秒；動作時間不大於 0.04 秒，接觸點的遮斷容量當電壓在 220 伏以下，電流在 2 安以下，在有感應負荷之直流回路中為 50 瓦。

繼電器的內部機構固定在金屬的底座上，並罩以金屬外殼，其前面配以玻璃窗，可供前面或後面接線，以便安裝於垂直的配電板上。

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DIRECTIONAL POWER RELAY

This power relay is manufactured after the Soviet Model ИМБ-170. It is made for directional protection systems.

There are two types according to applications:

1. ИМБ—171/1 used for protection of shorting circuit between phases.
2. ИМБ—178/1 used for protection of shorting circuit from to ground.

The specifications of these relays are 100 V., 5A., 50 c/s, and time of action is less than 0.04 sec. At voltages below 220 V. and currents below 2 amp., the interrupting capacity of the contacts in D.C. circuit with inductive load is 50 W.

The relay is fixed on a metal plate and covered by a metal case with glass window. Front and rear connections are provided so that the relay can be mounted on a vertical switchboard.

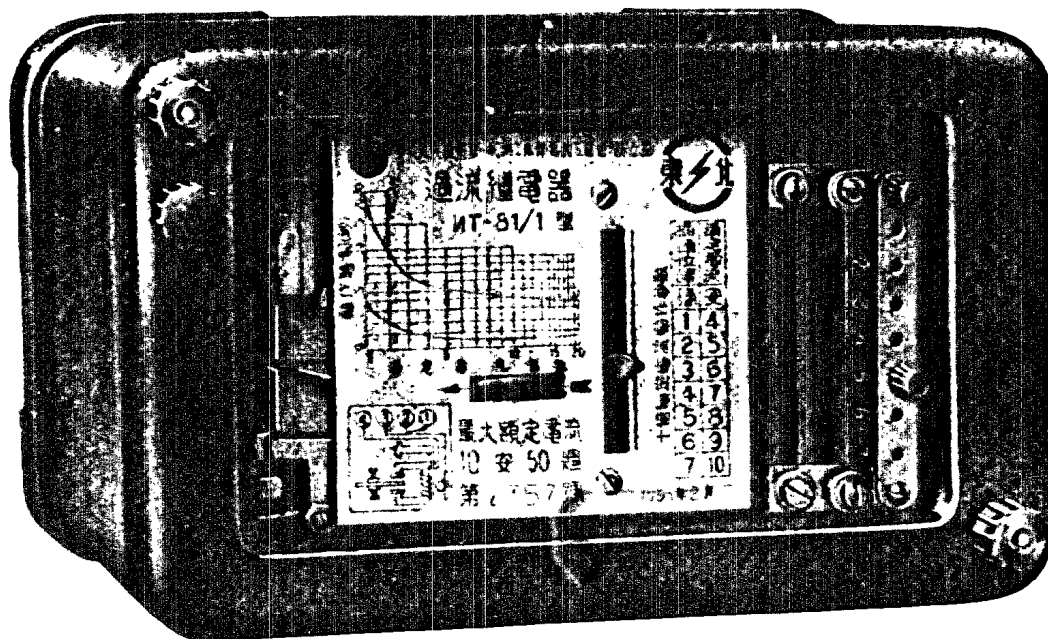
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過電流繼電器

(仿蘇聯 HT-80 系列)

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本系列過電流繼電器係仿蘇聯 HT-80 型系列製造，用作保護交流電力系統中各種電器設備及線路的安全。

繼電器的額定電流分為 5、10 安兩種；其動作電器選定範圍各為 2~5，4~10 安，其動作時間最大可各延至 4~16 秒，最小可各延至 0.5~2 秒；線圈的消耗功率為 15 伏安，返迴係數 0.85 以上；週率為 50 週 秒，接點可裝置為常開或常閉。

繼電器備有耐壓零件，按裝時無須取下蓋板，接線時可按需要，作前面聯接或後面聯接。

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OVER CURRENT RELAY

This over current relay is manufactured after the Soviet Model HT-80. It is made for protecting various equipments and lines in A.C. power system.

There are two types can be supplied, having respectively normal current 5 and 10 amperes range of operating current 2 to 5 and 4 to 10 amperes, maximum time delay 4 and 16 sec., minimum time delay 0.5 and 2 sec.; power consumption 15 va., return coefficient greater than 0.85, frequency 50 c/s. The contacts can be either normally open or close.

Spare parts are supplied. There is no need to take off the cover for mounting. External connections can be made from front or rear of the relay.

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汽 油 機

(15 馬 力)

15 H.P.

GASOLINE ENGINE

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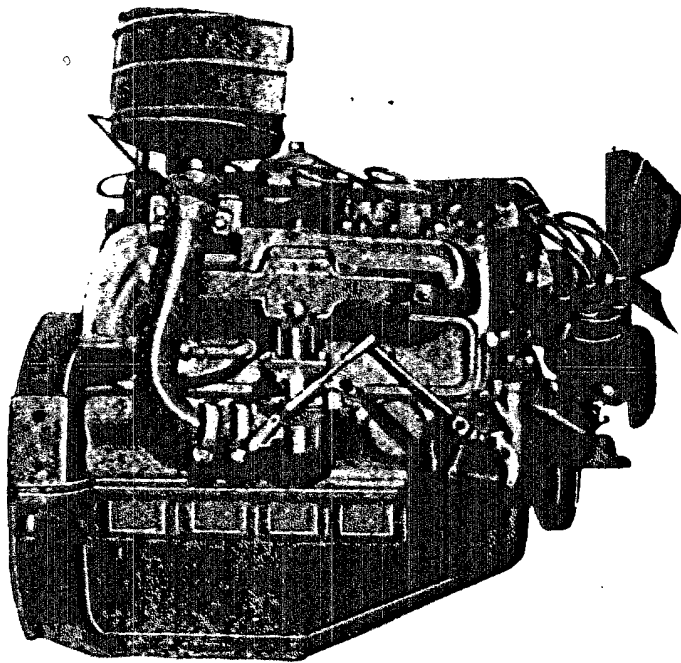
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汽 油 機

(15 馬 力)



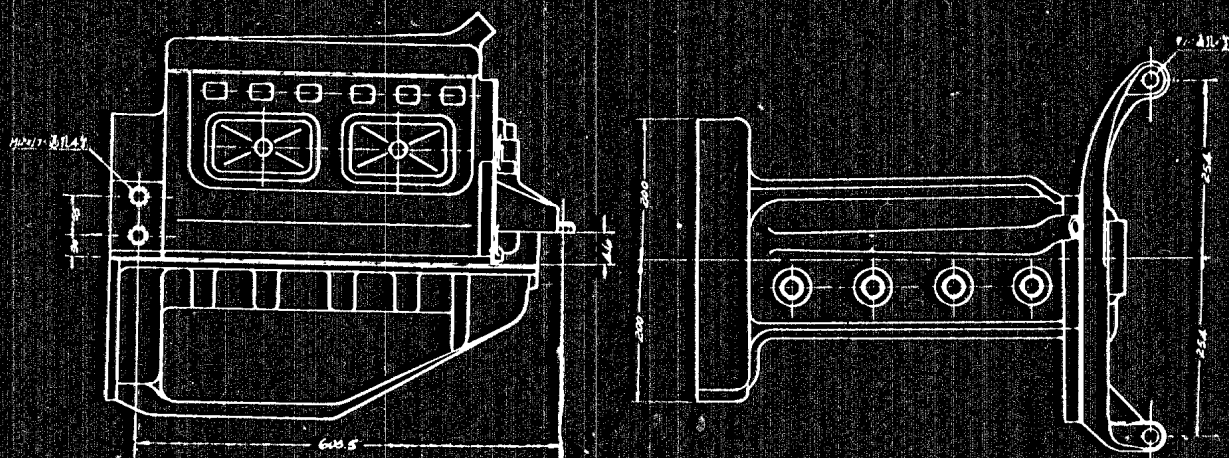
本機為四衝程，立式，水冷汽油機。適用於發電，打水以及其他小型工業的動力供用。

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有離合式調速器裝置，調速效能為±2%。最大扭矩為11.5公斤·公尺。
排氣閥採用特殊合金鋼製造，能耐高溫。本機結構簡單，便於檢修和移動。

主 要 規 格

額定馬力(在每分鐘1500轉時)	15
汽缸數	4
汽缸直徑	81 公厘
活塞行程	96 公厘
活塞排氣量	1.978 公升
壓縮比	6:1
轉速	1500 轉/分
冷卻方法	水冷
潤滑方法	壓力
起動方法	用直流電起動機起動
發火順序	1—2—4—3
點火方法	電瓶，生力
火室塞直徑	14 公厘
燃料消耗量(汽油比重為0.63)	0.453 公斤/馬力·小時
潤滑油消耗量	0.055 公斤/時
外形尺寸(長×寬×高)	850×552×760(連水箱在內高910，長875)公厘
本機淨重	180 公斤



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15 H.P. GASOLINE ENGINE

The gasoline engine is a four-stroke, vertical, water-cooled type suitable for driving electric generators, water-pumps and other small industrial units.

The engine speed is centrifugally governed, the variation of revolution being $\pm 2\%$. Maximum torque is 11.5 kg-meter. The exhaust valve, made of special alloy steel, can resist high temperature. The structure of the engine is simple, easy for maintenance.

MAIN SPECIFICATIONS

Rated horsepower (at 1500 R.P.M.)	15
No. of cylinders	4
Bore, mm.	81
Stroke, mm.	96
Piston displacement, litres.	1.978
Compression ratio	6:1
Speed, R.P.M.	1500
Cooling system	water cooled
Lubricating system	forced
Starting	by D. C. starter
Firing order	1-2-4-3
Ignition	battery and coil
Diameter of spark plug, mm.	14
Fuel consumption (specific gravity of gasoline being 0.63), kg/H.P.-hr.	0.453
Lubricating oil consumption, kg/hr.	0.055
Overall dimensions, mm.	850 × 552 × 760
	(including radiator height 9.10 mm. length 875 mm)
Net weight, kg.	180

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臥 式 搪 床

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(仿蘇聯 262 Ⅱ 型)

HORIZONTAL BORING DRILLING AND MILLING MACHINE

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中 央 人 民 政 府 第 一 機 械 工 業 部

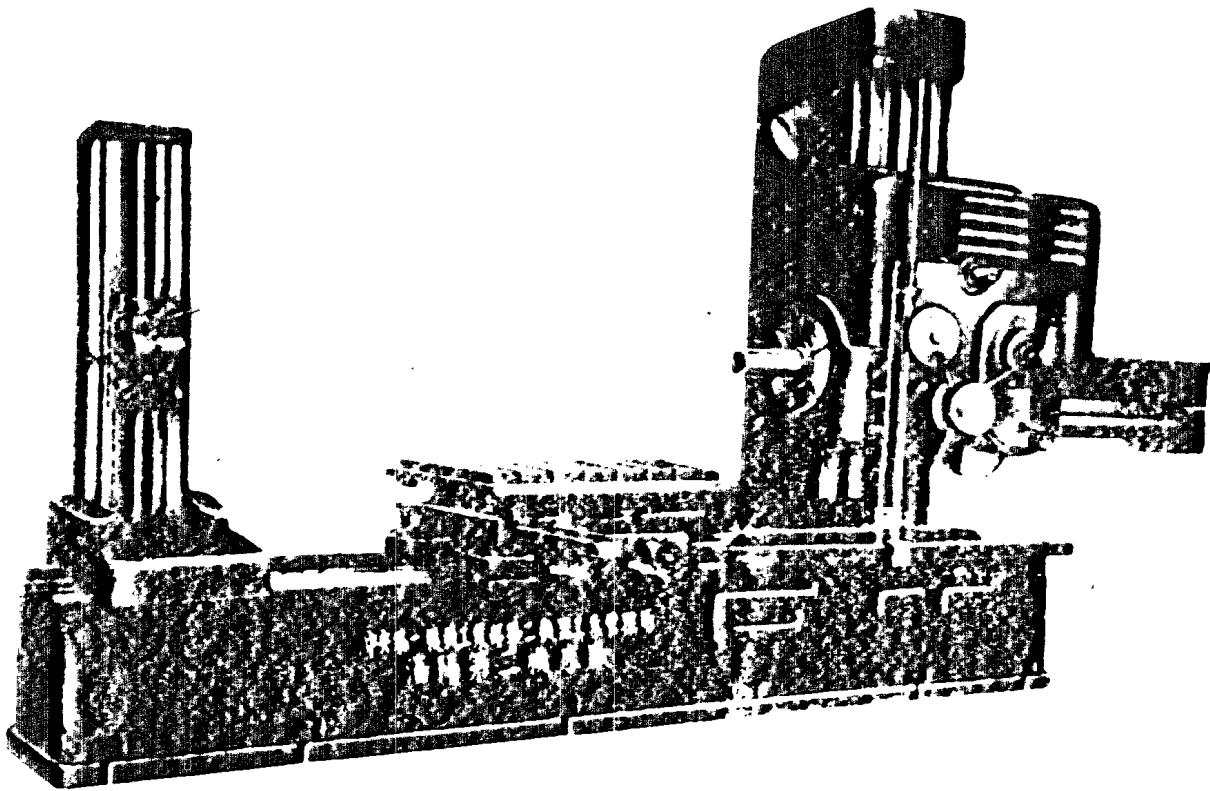
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臥 式 搪 床

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(仿蘇聯 262 Ⅱ 型)



本機床係仿蘇聯 262 Ⅱ 型臥式搪床製成的，機床裝有特別剛強的主軸（直徑比 262 Ⅰ 型機床主軸大），主要適用於不需用徑向刀架的黑色金屬零件的加工，特別是對鑄鐵的零件。

本機床能在對於孔距要求精確的大件上進行搪孔，鑽孔，擴孔，及鉸孔工作，同樣可用帶柄銑刀及端面銑刀進行銑切和切內螺紋。

主軸由雙速電動機經變速箱帶動。

主軸、主軸箱及工作台的送刀箱送刀箱來進行。

機床各工作部份的快速移動，由單獨電動機帶動，切削送刀及快速移動相互聯鎖，在過負荷時能自動停止。

在運轉中切削速度及送刀量的變換，用一手柄機構調整。

迴轉工作台裝在圓球上，可用手轉動成各種角度，工作台迴轉至 90° 時用擋鐵定位。

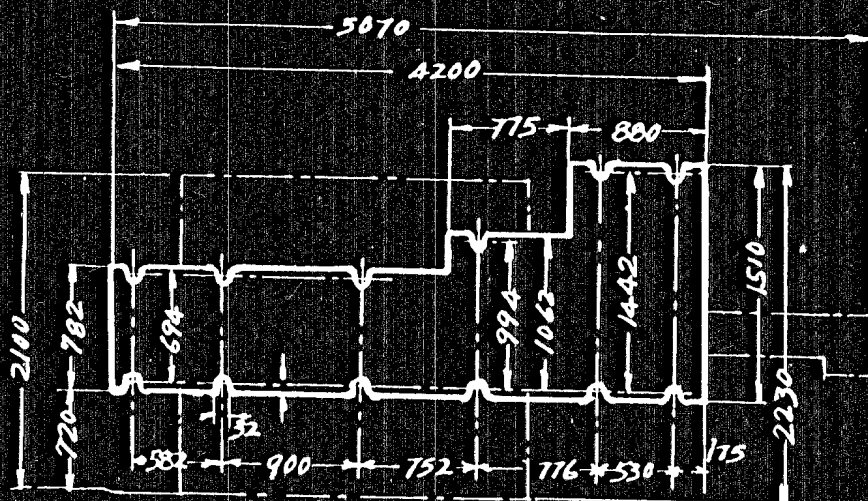
機床上裝有刻度尺及擋鐵，用千分墊及千分表能使主軸箱及工作台按座標精確定位。

25X1

25X1

主 要 規 格

主軸直徑	110 公厘
主軸孔錐度	莫氏 6 號
主軸最大軸向移動距離	600 公厘
工作台面(長×寬)	1000×800 公厘
工作台最大移動距離(機動及手動):	
縱向	1225 公厘
橫向	850 公厘
主軸中心線至工作台面距離	45—800 公厘
主軸轉速種數	18
主軸轉速範圍	20—1000 轉/分
工作台縱向及橫向, 主軸軸向及主軸箱升降送刀的種數各	18
主軸每轉主軸送刀量範圍	0.05—16 公厘
主軸每轉主軸箱及工作台送刀量範圍	0.025—8 公厘
主軸軸向快速移動速度	4.8 公尺/分
工作台縱向橫向及主軸箱升降快速移動速度	2.4 公尺/分
三相交流電動機:	
主軸傳動用(雙速):	
功率	6.5 瓩
轉速	1500—3000 轉/分
快速移動用:	
功率	2.8 瓩
轉速	1500 轉/分
外形尺寸(長×寬×高)	5070×2250×2755 公厘
機床淨重	約 11600 公斤



25X1

HORIZONTAL BORING, DRILLING AND MILLING MACHINE

This machine is manufactured after the Soviet Model Horizontal Boring Machine; Model 262/I, with enormous rigidity of spindle (The diameter of spindle is larger than 262I)

The machine is suitable for cutting ferrous metal especially cast iron works.

The machine can be used for boring, drilling, counter boring and reaming holes with accurate center distance.

End milling cutter and face milling cutter also can be used on this machine.

It is possible to cut inner thread on the machine.

Spindle is driven by a two speeds motor through speed gear box. Feeds of spindle, headstock and rotary table are obtained through feed gear boxes.

Rapid traverse of all movable parts is supplied by independent motor. Interlocking devices prevent both engagements of feed and rapid traverse. The machine can be stopped automatically due to overloading.

Cross and longitudinal feeds can be regulated by hand.

The rotary table mounted on an anti-friction bearing can be freely rotated by hand. Stops for locating are provided at 90°.

Accurate locating of table and headstock is obtained by dial indicator measuring devices and gage blocks.

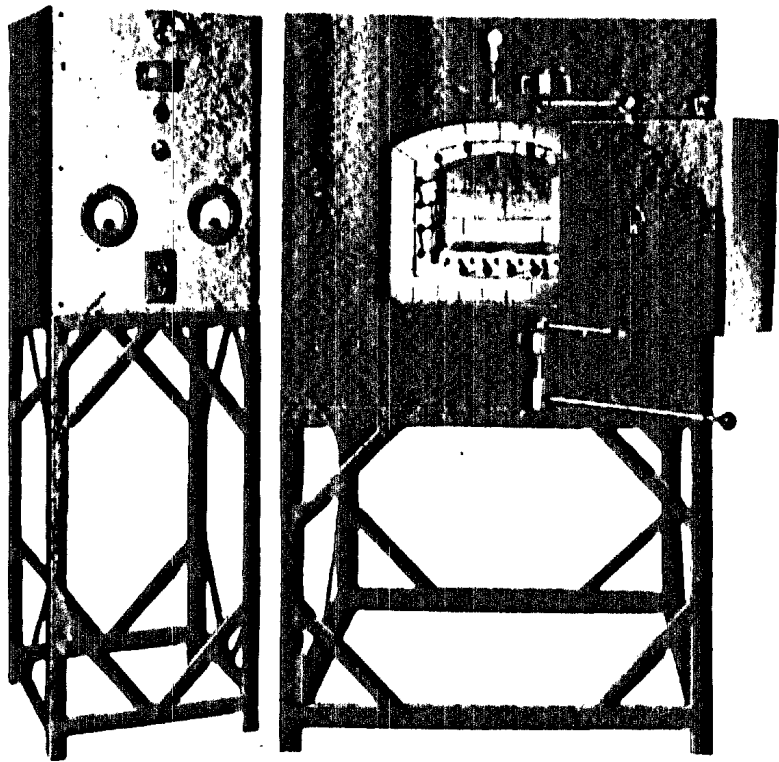
MAIN SPECIFICATIONS

Dia. of spindle, mm.	110	Range of feeds of headstock and table, per revolution of spindle mm. . .	0.025—8
Morse taper in spindle	No. 6	Rapid axial travel of spindle, M/min . .	4.8
Maximum travel of spindle, mm.	600	Rapid traverse of cross and longitudinal movements of table and vertical movement of headstock M/min. . . .	2.4
Working surface of table (length × width), mm.	1000 × 800	3-phase A.C. motors:	
Maximum travel of table (automatic and by hand):		Main drive (two speeds):	
Longitudinal, mm.	1225	Power rating, kw.	6.5
Cross, mm.	850	Speed, R.P.M.	1500/3000
Distance, spindle axis to table, mm. . .	45—800	Rapid traverse drive:	
Number of spindle speeds	18	Power rating, kw.	2.8
Range of spindle speeds, R.P.M. . . .	20—1000	Speed, R.P.M.	1500
Number of cross and longitudinal feeds of table axial feeds of spindle, vertical feeds of headstock	18	Overall dimensions (length × width × height), mm.	5070 × 2250 × 2755
Range of feeds of spindle, per revolution of spindle mm.	0.05—16	Net weight, kg.	Approx. 11600

25X1

自動定溫高溫熱電偶

25X1



本型高溫電熱爐用於工業上的熱處理，熔解或其他需要在高溫恆溫情況之下操作時用。

爐身外部用厚鐵板製，加熱室為耐火磚砌成；最高操作溫度為攝氏 1000°，溫度控制採用超高频震盪式自動控制器，靈敏度為攝氏 ±10° 高溫計量程攝氏 0-1200°，附熱電偶一枚。

主 要 規 格

約耗電量	10 瓩
電熱電源	交流 100/220 伏，50 週皮
加熱室大約容量：深	450 公厘
高	200 公厘
闊	300 公厘

25X1

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MUFFLE FURNACE

This muffle furnace can be used in industrial heat treatment and melting at high temperatures.

The envelope is made of thick iron plate and the heating chamber is constructed with firebricks. The highest operating temperature is 1000 °C and temperature is controlled automatically within $\pm 10^\circ\text{C}$ by a high frequency oscillator. Pyrometer scale reads 0-1200°C and a thermocouple is attached.

MAIN SPECIFICATIONS

Approximate power consumption, kw.	10
A.C. source	110/220 V, 50 c/s.
Dimensions of heating chamber:	
Length, mm.	450
Height, mm.	200
Width, mm.	300

25X1

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仿 形 銑 床

(仿蘇聯 6461 型)

25X1

25X1

COPYING MACHINE

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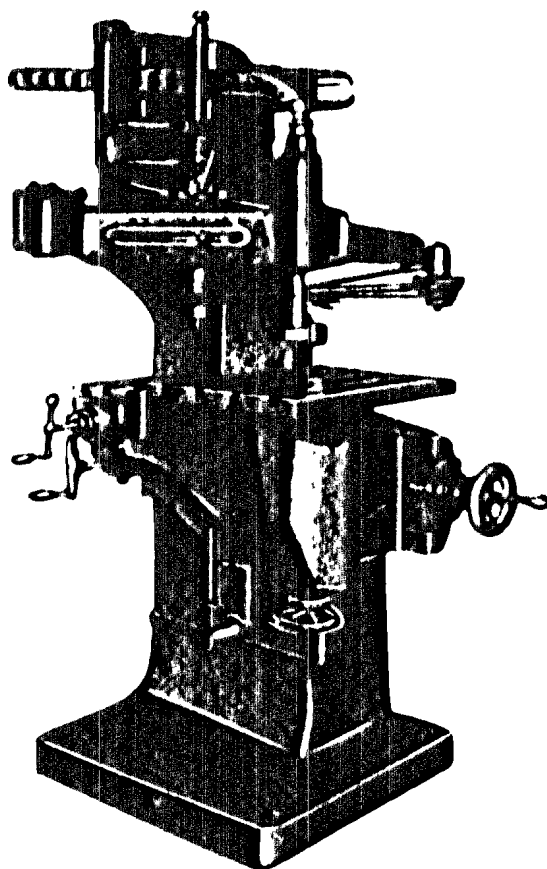
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25X1

仿 形 銑 床

(仿蘇聯 6461 型)



本機床係仿蘇聯 6461 型仿形銑床製造。

本機床適用於在三個向度內，作各種仿形銑切工作，其縮小比例尺為 1:8--1:1.5。

用本機床可製各種衝模、壓模、印模及各種浮雕的零件等，並可在標出的比例尺範圍內進行各種平面仿形銑切工作。

將縮放器固定後，用手移動工作台，可進行細微的銑切工作。

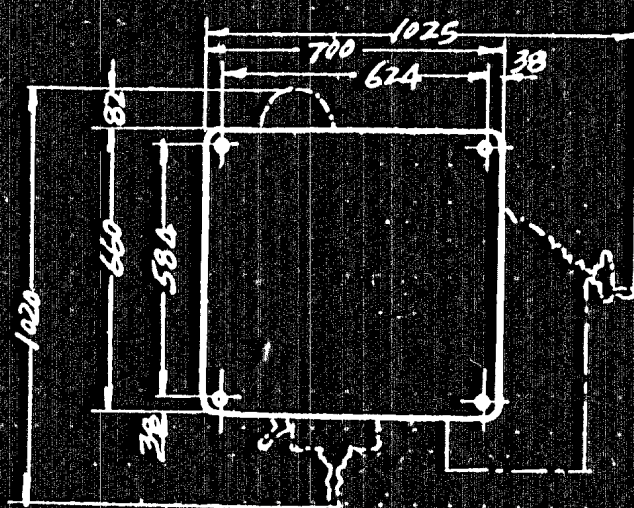
比例尺為 1:2 時，最大加工面積在直徑 150 公厘的圓周之內。

機床附件有：圓轉工作台一件，曲面仿形環二件，固定銼針頭夾具，仿形工具（刀具及刮針）及彈力夾頭六件等。

25X1

主 要 規 格

仿形比例	1:8; 1:7; 1:5; 1:4; 1:3; 1:2; 1:1.7; 1:1.5
主軸端至工作台面的距離	0—250 公厘
比例為 1:2 時的鏡切深度	20 公厘
工作台面尺寸(長×寬)	300×200 公厘
工作台最大移動距離:	
縱向	250 公厘
橫向	150 公厘
昇降	250 公厘
仿形台工作面的尺寸(長×寬)	450×300 公厘
仿形台最大移動距離:	
縱向	200 公厘
橫向	150 公厘
昇降	140 公厘
主軸轉速種數	6
主軸轉速範圍	1750—9600 轉/分
三相交流電動機:	
功率	0.6 瓩
轉速	1410 轉/分
外形尺寸(長×寬×高)	1250×1100×1600 公厘
機床淨重	約 800 公斤



COPYING MACHINE

This machine is manufactured after the Soviet Model 6461 Copying Machine.

The machine is designed for various form milling in three dimensions, the reducing scale being from 1:8 to 1:1.5

On this machine it is possible to make all kinds of punches, dies, stamps and different kind shap parts, as well as plane form milling can be produced within above reducing scale.

It is possible to mill fine work when the pantograph is fixed and the table moved by hand.

Machine equipments: circular table 1 piece, curve copying stock 2 pieces, clamping adjustment for fixed small head of marking needle, copying tools (tools and marking needle) and spring tongs 6 pieces, etc. .

MAIN SPECIFICATIONS

Scale of copying	1:8; 1:7; 1:5; 1:4; 1:3; 1:2; 1:1.7; 1:1.5
Distance from end of spindle to surface of table, mm.	0-250
At scale 1:2, milling depth, mm.	20
Working surface of table (length \times width), mm.	300 \times 200
Maximum travels of table:	
Longitudinal, mm.	250
Cross, mm.	150
Vertical, mm.	250
Working surface of copying table (length \times width) mm.	450 \times 300
Maximum travels of table:	
Longitudinal, mm.	200
Cross, mm.	150
Vertical, mm.	140
Number of spindle speeds	6
Range of spindle speeds, R.P.M.	1750-9600
3-phase Motor:	
Rating, kw.	0.6
Speed, R.P.M.	1410
Overall dimensions (length \times width \times height) mm.	1250 \times 1100 \times 1600
Net weight, kg.	approx. 800

25X1

短頭圓錐破碎機

25X1

(仿蘇聯 KCD-2100 型)

2100 MM.

SHORT CONE CRUSHER

25X1

中華人民共和國
中央人民政府第一機械工業部

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25X1

短頭圓錐破碎機

25X1

(仿蘇聯 КСД-2100 型)

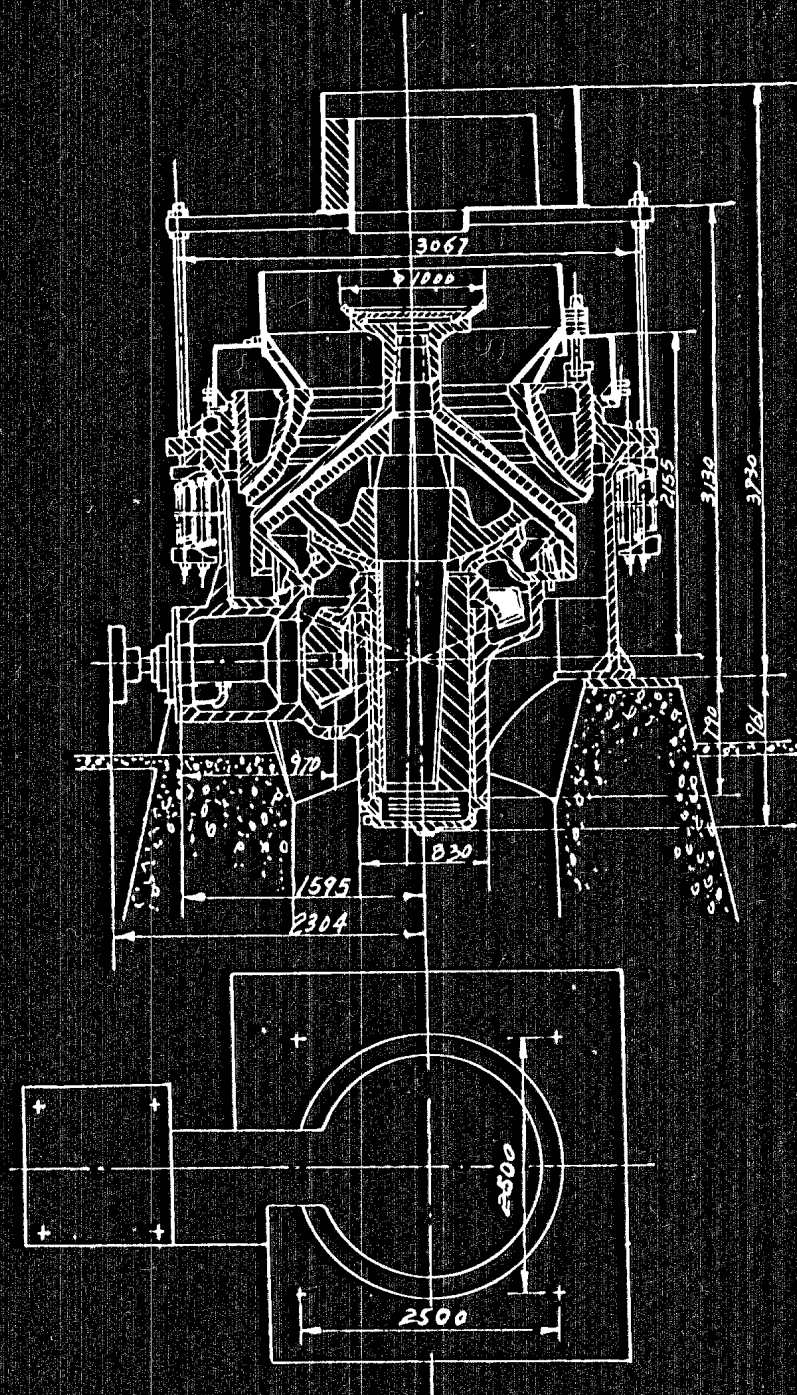
本機係仿蘇聯 КСД-2100 型短頭圓錐破碎機製造，適於各種礦石中碎之用。

本機主要是由圓筒形鑄鋼的胴體、調整環、錐形壁及破碎錐等部份構成，破碎錐為錳鋼鑄造。出料口寬度可視需要礦石的大小調整。傳動方式係用彈性聯接器與電動機直聯。防塵設備為水封式。調整環藉特殊彈簧之助與胴體相連，當破碎機中落入不可破碎的物體時（如金屬塊），調整環可向上升起，以避免機體的損壞。

主 要 規 格

底錐直徑	2100 公厘
進料塊最大尺寸	300 公厘
出料口寬度調整範圍	30—60 公厘
生產量:	
當出料口為 30 公厘時	500 公噸/小時
當出料口為 60 公厘時	800 公噸/小時
空偏心軸轉速	200 轉/分
電動機:	
功率	200—230 瓩
轉速	485 轉/分
外形尺寸 (長×寬×高)	3900×3200×4900 公厘
本機淨重 (電氣設備的重量在外)	63500 公斤

25X1



2100 MM. SHORT CONE CRUSHER

The crusher is manufactured after the Soviet Union Model KC/I-2100 short cone crusher and is used for intermediate ore crushing. It consists mainly of parts of cylindrical cast steel body, adjusting ring, conical wall and cast manganese steel crushing cone etc. The width of discharge gap may be adjusted according to size of products as required. Power is transmitted through direct spring coupling connected to electric motor. Water sealed dust preventer is provided.

The adjusting ring is connected to the body by specially designed springs, it is raised and protects the crusher from damaged in case some unbreakable materials such as blocks of metals fall into the crusher.

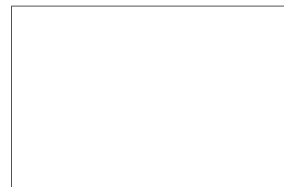
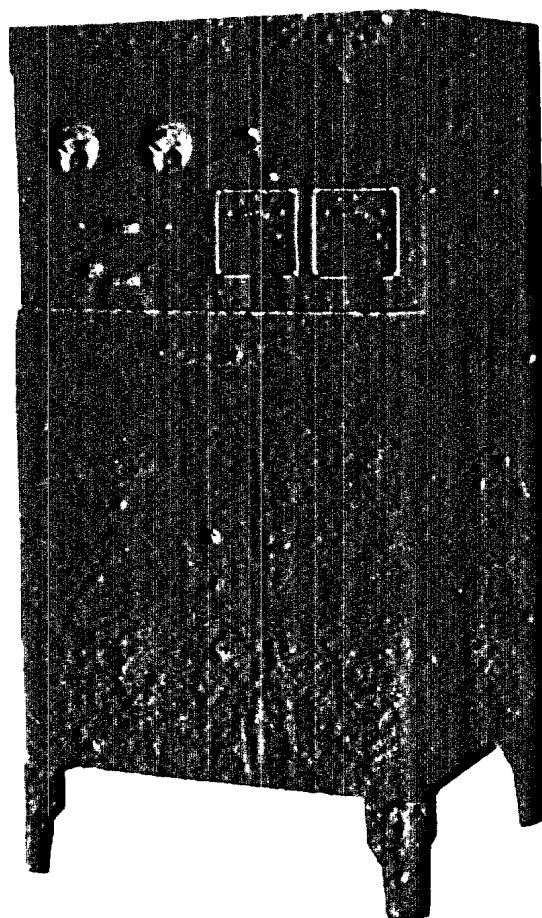
MAIN SPECIFICATIONS

Dia. of cone base, mm.	2100
Maximum size of feed material, mm.	300
Adjusting limit of discharge gap, mm.	30—60
Capacity:	
For 30 mm. discharge gap, tons/hr.	500
For 60 mm. discharge gap, tons/hr.	800
Speed of hollow eccentric shaft, R.P.M.	200
Electric motor:	
Power, kw.	200—230
Speed, R.P.M.	485
Overall dimensions (length × width × height), mm.	3900 × 3200 × 4900
Net weight (excluding electric equipment), kg.	63500

25X1

電力用氧化銅整流器

25X1



本整流器為自然冷却連續使用式，適用於蓄電池充電，以及其他需要直流電源之設備。

主 要 規 格

交流輸入	110-220 伏，單相，50 週/秒
直流輸出	40 伏，12 安
效率	50%
溫升限度	攝氏 55° (室溫攝氏 35° 時)
重量	100 公斤

配件：

單相 820 伏安變壓器一具，自緩電壓調節器二具，直流電流表，電壓表各一具

25X1

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COPPER OXIDE POWER RECTIFIER

This rectifier is natural cooling in continuous operation. It can be used as battery chargers and other D.C. power supplies.

MAIN SPECIFICATIONS

A.C. input	110/200 V, single phase, 50c/s
D.C. output	40 V. 12 A.
Efficiency	59%
Temperature rise	55°C (at room temperature of 35°C)
Weight, kg.	100

Accessories: 820 VA, 1 ϕ transformer 1; 11 steps voltage regulator 2; D.C. voltmeter and ammeter 1 each.

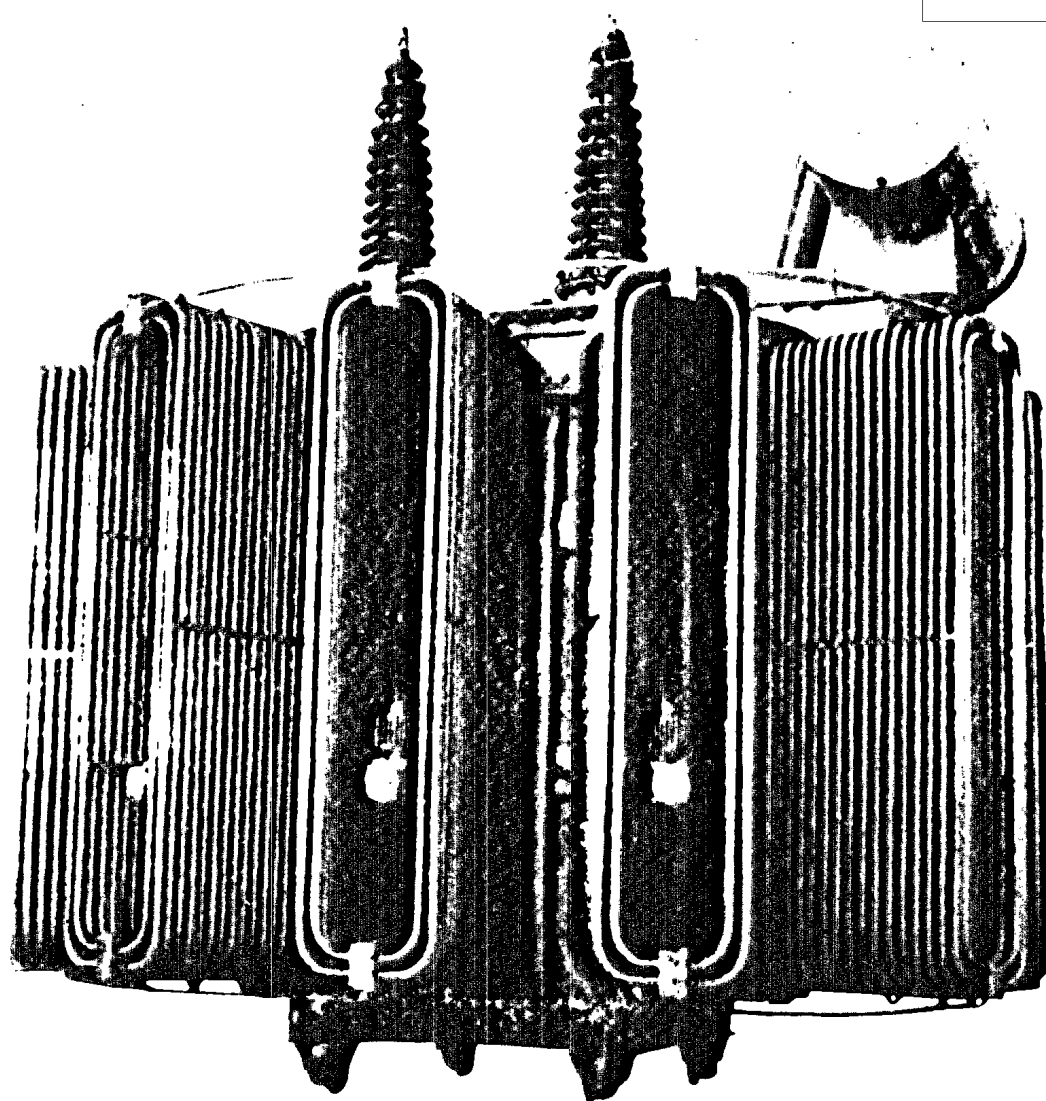
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25X1

25X1

電力變壓器

25X1



大容量高壓電力變壓器，均係仿蘇聯TM，TJ，TMF，TMFF，TJF，
TJFF，OJF及OJFF等多種型式製造

現能製造範圍：

1. 三相，50週波，高壓10仟伏，其容量從300到20000仟伏安；110仟
伏者，容量從5000到100000仟伏安。

25X1

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2. 單相 50 週波，高壓 60 仟伏及 110 仟伏者，其容量從 6667 到 20000 仟伏安；220 仟伏者，其容量從 20000 到 40000 仟伏安。

大容量高壓電力變壓器（三相或單相，雙線捲或三線捲，昇壓或降壓）有戶內用或戶外用兩種。110 仟伏級者目前已有出品，220 仟伏級者須於 1955 年起供應。

容量在 7500 仟伏安及其以下各容量的變壓器，係採用油浸自冷式；容量從 10000 仟伏安及其以上者則採用油浸風冷式。

所有變壓器的高壓線捲以及三線捲變壓器的中壓線捲都有四個附加分接頭：即 +5%，+2.5%，-2.5% 和 -5%，用以調節電壓。

變壓器附裝有主要的保護及輔助設備，如油溫計器及氣體繼電器等以保證變壓器的安全使用。

POWER TRANSFORMER

The power transformers are manufactured after the Soviet Model TM, T/I, TMГ, TMTГ, T/IГ, T/IГГ, O/IГ, O/IГГ.

1. Three phase, 50c/s, 60 kv, 3200-20000 kva,
110 kv, 5600-20000 kva.
2. Single phase, 50c/s, 60-110 kv, 6667-20000 kva,
220 kv, 20000-40000 kva.

The transformers are made for indoor or outdoor applications (single or three phase; double or triple winding; step up or step down). Transformers of 110 kv and below are available right now while of 220 kv will be available in and after 1955.

Transformers of capacity below 7500 kva are of oil-immersed, self-cooled type; those above 10000 kva are oil-immersed and force-cooled.

All the high voltage winding as well as the inter-voltage winding of three winding transformers are prepared with four taps for voltage regulation: +5%, +2.5% -2.5% and -5%.

Transformers are equipped with protection devices and other accessories such as oil temperature thermometer, gas relay, etc. in order to secure the transformer in safety operation.

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25X1

25X1

震 壓 式 造 型 機

JOLT SQUEEZER MOULDING MACHINE

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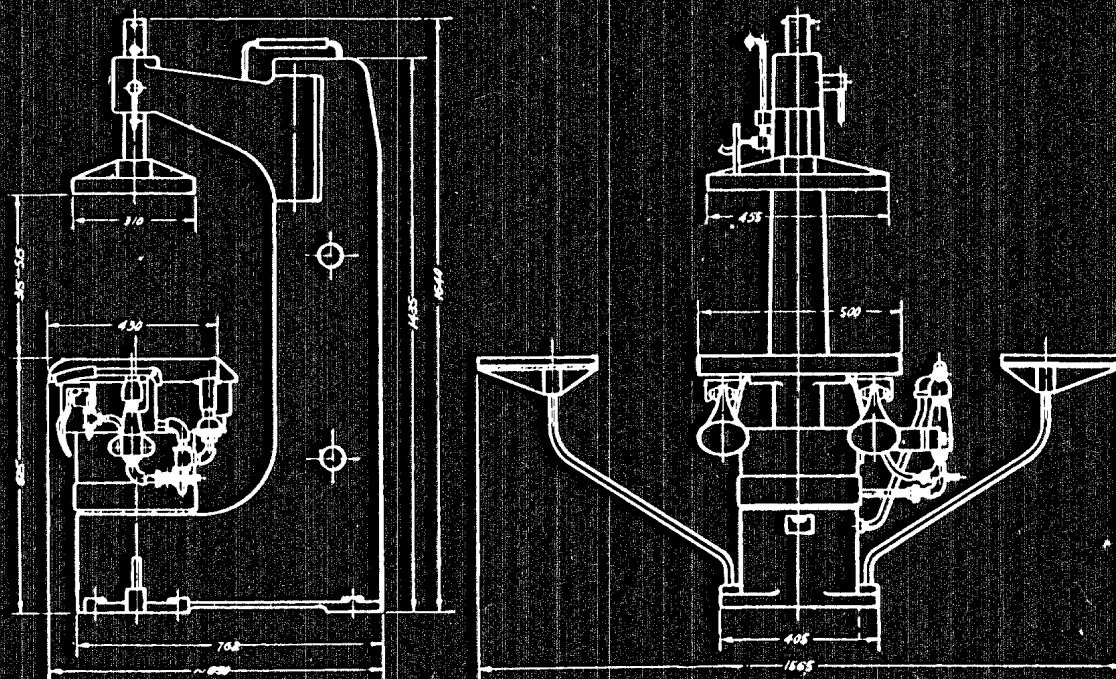
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25X1

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震壓式造型機



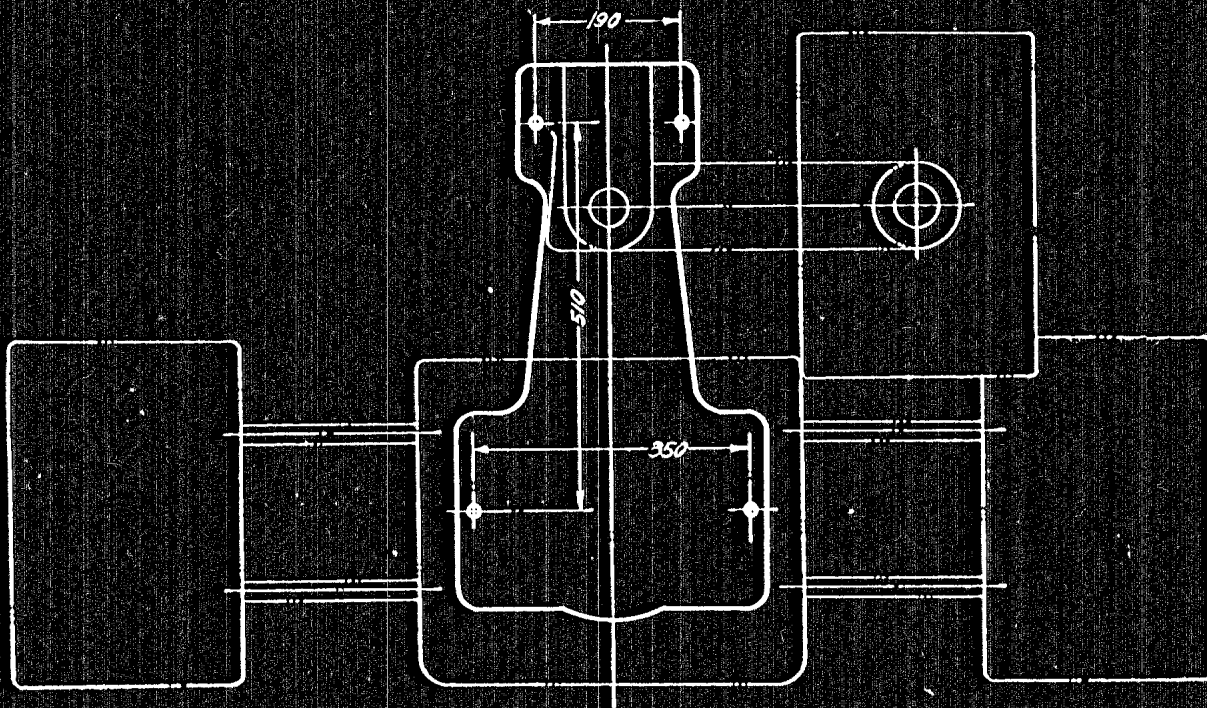
本機為震壓式，適用於無砂箱之砂型造型。本機由機架、震動機構、上面壓板機構及左右扳架等部份構成。造型時，先將下型向上填入型砂震實，用人工翻轉，使上型向上，填入型砂後機器台面上升而壓緊之，用手取模。

25X1

25X1

主 要 規 格

生產量	30—40 箱/小時
砂箱內部尺寸	400×300 公厘
震動台面尺寸	500×430 公厘
震動台至地面高	625 公厘
壓板至震動台面距離	315—515 公厘
震動活塞直徑	80 公厘
震動活塞行程	50 公厘
頂壓活塞直徑	250 公厘
頂壓活塞行程	125 公厘
風壓	5—6 公斤/平方公分
空氣消耗量	約 0.3 立方公尺/每箱
外形尺寸(長×寬×高)	850×1565×1640 公厘
本機淨重	約 800 公斤



25X1

JOLT SQUEEZER MOULDING MACHINE

The moulding machine is of jolt squeezing type. It is composed of frame, mechanism, press plate, right and left table support. When moulding, first place the pattern plate with its lower part facing upperward, fill with sand, jolt, and then turn over by hand, so that the upper part of the pattern plate is facing upward, fill with sand, press the table upwards, and then remove by hand.

MAIN SPECIFICATIONS

Capacity, flasks/hr.	30—40
Inner size of sand box, mm.	400 × 300
Size of jolt table, mm.	500 × 430
Height of jolt table, mm.	625
Distance between press plate and jolt table, mm.	315—515
Dia. of jolt piston, mm.	80
Stroke of jolt piston, mm.	50
Dia. of press plunger, mm.	250
Stroke of press plunger, mm.	125
Air pressure, kg/cm ²	5—6
Air consumption, m ³ /flask	0.3
Overall dimensions (length × width × height), mm.	850 × 1565 × 1640
Net weight, kg.	approx. 800

25X1

車 床

(仿蘇聯 153 型)

**SINGLE COLUMN
VERTICAL TURRET LATHE**

25X1

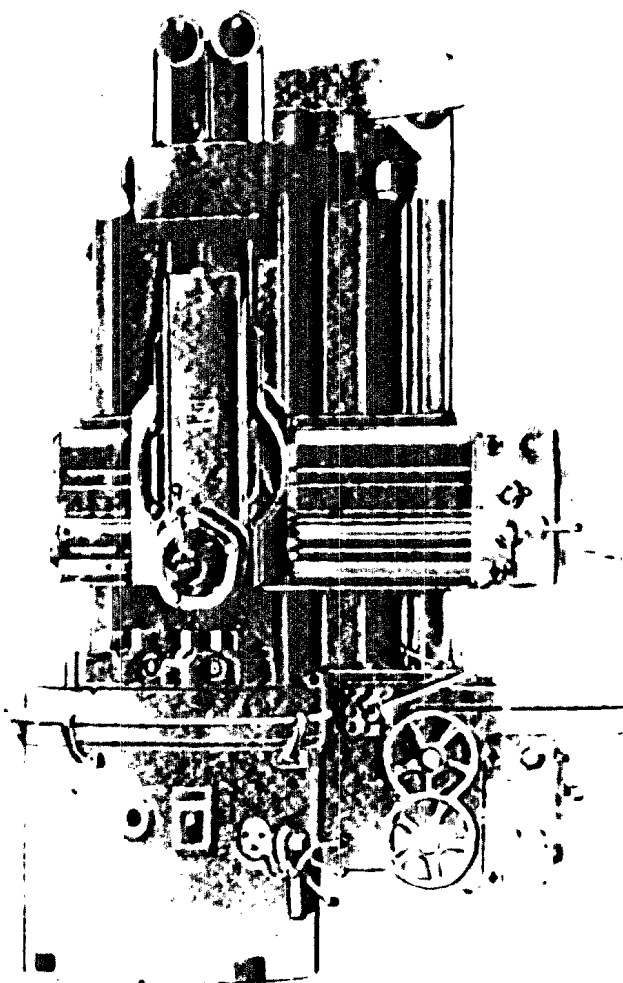
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25X1

單柱立式車床

(仿蘇聯 153 型)



本機係仿蘇聯 153 型單柱立式車床製造

本機適用於需要許多連貫工序（車外圓、細孔、車端面、鑽、銑等）的零件加工。坯料裝在四爪卡盤中或工作台的單緊夾具中。

車削工件所必需的切削工具裝在迴轉刀架的左側孔內和側刀架的四個面的迴轉刀座中。

機床有兩個牽動機。

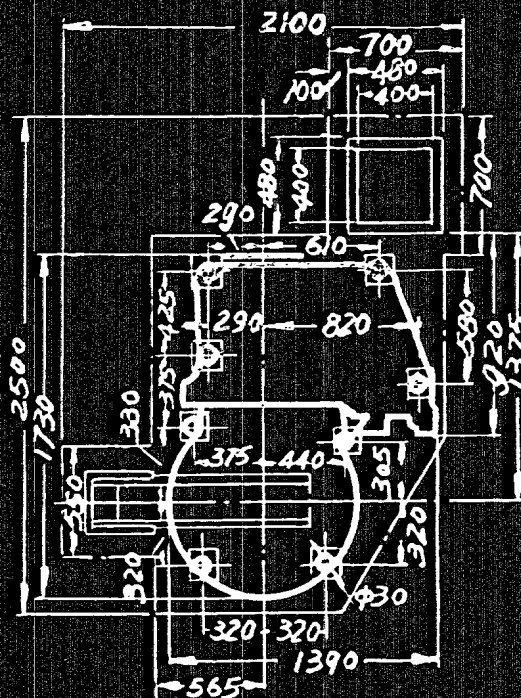
工作台轉速由變速箱控制；迴轉刀架和側刀架的垂直送刀及水平送刀則由送刀箱控制。

利用手柄將摩擦接合子連接，工作台即旋轉；將接合子脫開，即受到制動器的作用即停止。

迴轉刀架及側刀架的送刀機構有超負荷保護裝置。迴轉刀架及側刀架在水平方向及垂直方向移動可由手柄和機動。

主 要 規 格

工作台直徑	1030 公厘	側刀架最大移動距離 (機動和手動):	
自工作台中心到立柱面的距離	625 公厘	水平方向	600 公厘
最大車削直徑:		垂直方向	960 公厘
用立刀架	1250 公厘	工作台主軸孔徑	150 公厘
用側刀架	1120 公厘	工作台轉速種數	12
用迴轉刀架或立刀架可擔削孔徑:		工作台轉速範圍	7.5—150 轉/分
最小	120 公厘	立刀架及側刀架的送刀量種數	8
最大	1250 公厘	工作台每轉送刀量範圍	0.23—8.4 公厘
加工件最大長度	1000 公厘	立、側刀架快速移動速度	2 公尺/分
加工件最大允許重量	2000 公斤	橫樑快速移動速度	0.5 公尺/分
側刀架可車削長度:		三相交流電動機:	
在工作台上	730 公厘	主傳動用:	
在工作台外	960 公厘	功率	22 瓩
卡爪可夾持工件的直徑:		轉速	1460 轉/分
最小	70 公厘	快速行程傳動用:	
最大	900 公厘	功率	1.7 瓩
立刀架最大移動距離 (機動和手動):		轉速	930 轉/分
水平方向	750 公厘	外形尺寸 (長×寬×高)	2350×2185×3815 公厘
垂直方向	700 公厘	機床淨重	約 10000 公斤
立刀架最大迴轉角度	45°		



SINGLE COLUMN VERTICAL TURRET LATHE

This Machine is manufactured after the Soviet Model 153 Single Column Vertical Turret Lathe, suitable for machining the parts which require a number of successive operations such as turning, boring, facing, reaming, etc.

The parts to be machined are held in a four-jaw chuck or in other work-holding fixture mounted on the table. Tools necessary for operation are clamped in five holes in the swivel turret or in four positions in the revolving side head square block.

The machine is supplied with two motors.

Table speeds are obtained through main speed gear-box. Vertical and horizontal feeds of turret and side head are obtained through feed gear boxes.

The starting and stopping of the revolving of working table are controlled by disc clutch which is operated by a hand lever.

The feed mechanism is equipped with overload safety devices. The vertical and horizontal movements of the turret and side head operate manually or automatically.

MAIN SPECIFICATIONS

Table Dia., mm.	1030.	Maximum travel of side head (power and hand):	
Distance, table center to face of column, mm.	625	Horizontal direction, mm.	600
Maximum turning Dia.		Vertical direction, mm.	960
With vertical turret, mm.	1250	The hole Dia. of the spindle of table, mm.	150
With side head, mm.	1120	Number of table speeds, R.P.M.	12
Boring Dia. (turret and side head):		Range of table speeds, R.P.M.	7.5—150
Minimum, mm.	120	Number of feeds of turret and side head	8
Maximum, mm.	1250	Range of feed, per revolution of spindle, mm.	0.23—8.4
Maximum turning length, mm.	1000	Rapid traverse of vertical and side head, M/min	2
Maximum weight of work admitted, kg.	2000	Rapid traverse of cross beat, M/min	0.5
Maximum turning length with side head:		3-phase A.C. motors:	
Work on table, mm.	730	Main drive:	
Work outside table, mm.	960	Power rating, kw.	22
Clamping capacity chuck:		Speed, R.P.M.	1460
Minimum, mm.	70	Rapid traverse drive	
Maximum, mm.	900	Power rating, kw.	1.7
Maximum travel of vertical turret (power and hand):		Speed, R.P.M.	930
Horizontal direction, mm.	750	Overall dimensions (length × width × height), mm.	2350 × 2185 × 3815
Vertical direction, mm.	700	Net weight, kg.	Approx. 10000
Swivel of turret head	45°		

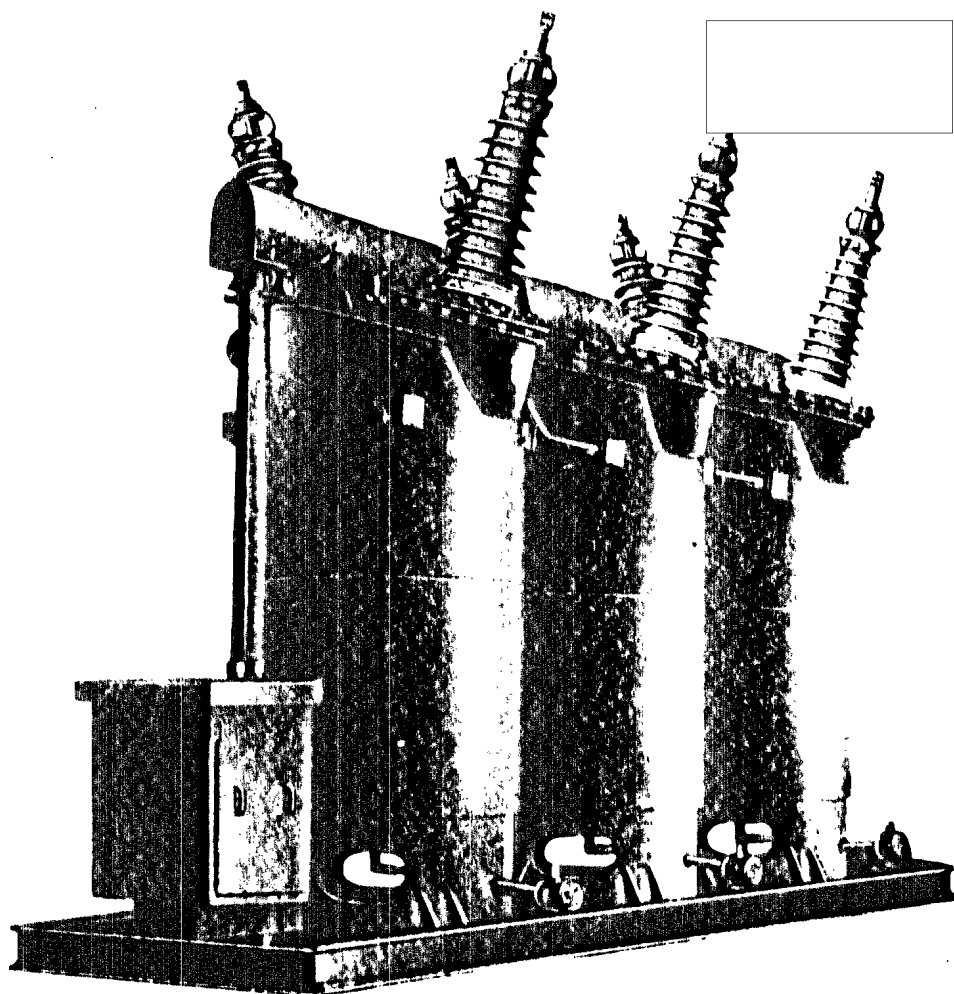
25X1

25X1

高 壓 油 斷 路 器

(仿 蘇 聯 MKII-160 型)

25X1



此型高壓油
斷路器係仿蘇聯
MKII-160 型製
造，適於戶外裝
置。額定電壓為
110 仟伏，電流
為 600 安，斷路
容量為 2500 兆
伏安。

額 定 電 壓 (仟伏)	最大工作 電 壓 (仟伏)	額 定 電 流 (安)	斷 流 容 量		極 限 通 過 電 流 (仟安)		熱 穩 定 電 流 (仟安)			總 重 (公 斤)
			(仟安)	(兆伏安)	有 效 值	峯 值	1 秒	5 秒	10 秒	
110	121	600	13.2	1500	30	49	30	20	14	21900

25X1

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本型油斷路器，係將三個單極用連接桿及機構使組成為一整體；仿蘇
 ШПБ-30Б型的電力操動機構，係分裝於一個特設的箱內並與油斷路器同置於一
 底座上，其裝有套管式電流互感器6至12只；其他附件包括：

- | | |
|-----------------|----------|
| 1. 斷路器“分”“合”指示器 | 5. 安全閥 |
| 2. 油面指示器 | 6. 提升機構 |
| 3. 出油閥 | 7. 操動機構箱 |
| 4. 排氣管 | 8. 接地螺絲 |

25X1

HIGH VOLTAGE OIL CIRCUIT BREAKER

This high voltage oil circuit breaker is manufactured after the Soviet Model MKII-160. It is suitable for outdoor equipment, rated voltage 100 kv. current 600 amp; interrupting capacity 2500 mva.

Rated voltage (kv.)	Max. working voltage (kv.)	Normal current (amp.)	Interrupting capacity		Max. carrying current (ka.)		Current attaining thermal stability within			Total weight (kg.)
			(ka.)	(mva.)	effective	peak	1 sec.	5 sec.	10 sec.	
110	121	600	13.2	2500	30	49	30	20	14	22900

The three poles are linked together by means of a connecting rod and the operator. The operating mechanism (electric) of type IIIIC—30Б (Soviet type) is assembled in a separate box, mounted on the same framework.

Six to twelve pieces of bushing type current transformer are embeded in this circuit breaker. Other standard accessories are:

- | | |
|-----------------------------|----------------------------|
| 1. Make and break indicator | 5. Safety valve |
| 2. Oil level indicator | 5. Lifting mechanism |
| 3. Oil outlet valve | 7. Operating mechanism box |
| 4. Exhausting pipe | 8. Ground screw |

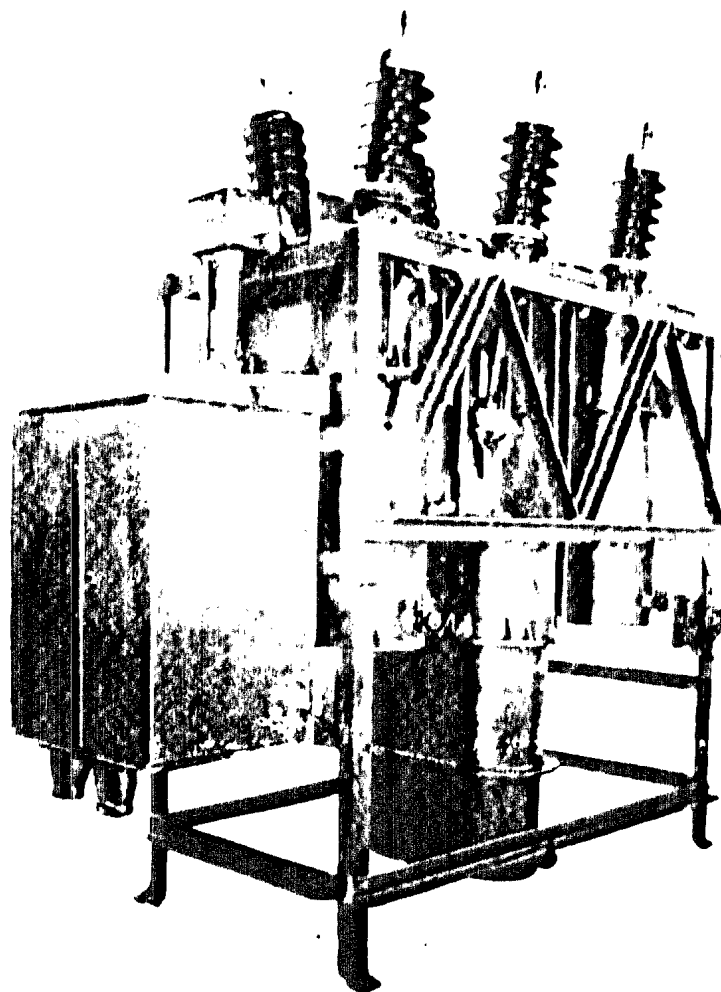
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高 壓 油 斷 路 器

(仿 蘇 聯 MKII-35 型)



此高壓油斷路器，係仿蘇聯 MKII-35 型製造，為高速開閉的三極開關，適用於戶外裝置。額定電壓為35仟伏，斷流容量為750兆伏安；額定電流有600及1000安兩種，用於20仟伏時其斷流容量為430兆伏安。

額 定 電 壓 (仟伏)	最大工作 電壓 (仟伏)	額定電流 (安)	極限通過電流 (仟安)		熱 穩 定 電 流 (仟安)			總重量(約) (公斤)
			有效值	峯值	1 秒	5 秒	10 秒	
35	40.5	600	17.3	30	17.3	12.5	9	3400

25X1

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斷路器每極由一個油箱單位構成，三個單位裝置在同一鐵架上。用傳動軸一根同時操動，操動機構為電磁式 IIII3-2 型（仿蘇聯式）。電源為 110 或 220 伏直流。

斷路器內安裝套管式電流互感器 6 或 12 只其他標準附件包括：

1. 斷路器“分”“合”指示器。
2. 油面指示器。
3. 放油管。
4. 出氣閥及完全閥。
5. 手搖式油箱升降機構。
6. 人力操動柄。
7. 安裝及調節用起重頂。
8. 接地螺絲。

HIGH VOLTAGE OIL CIRCUIT BREAKER

This high voltage oil circuit breaker is manufactured after the Soviet Model MKII-35. It is a high speed equipment suitable for outdoor installation. Rated voltage 35 kv., interrupting capacity 750 mva., normal current 600 amp. or 1000 amp. according to different designs. 20 kv. voltage, the interrupting capacity is 430 mva.

Rated voltage (kv.)	Max. working voltage (kv.)	Normal current (amp.)	Max. carrying current (ka.)		Current attaining thermal stability within (ka.)			Total weight (kg.)
			effective	peak	1 sec.	5 sec.	10 sec.	
35	40.5	600 or 1000	17.3	30	17.3	12.5	9	3400

The three poles of the circuit breaker are contained in three tanks fixed on an iron frame, and are simultaneously operated by a single driving axis. The electromagnetic operating mechanism type IIII3-2 (Soviet type) is designed for 110 or 220 V. D.C. supply.

Each circuit breaker can be equipped with 6 to 12 current transformer of bushing type. Other standard accessories are:

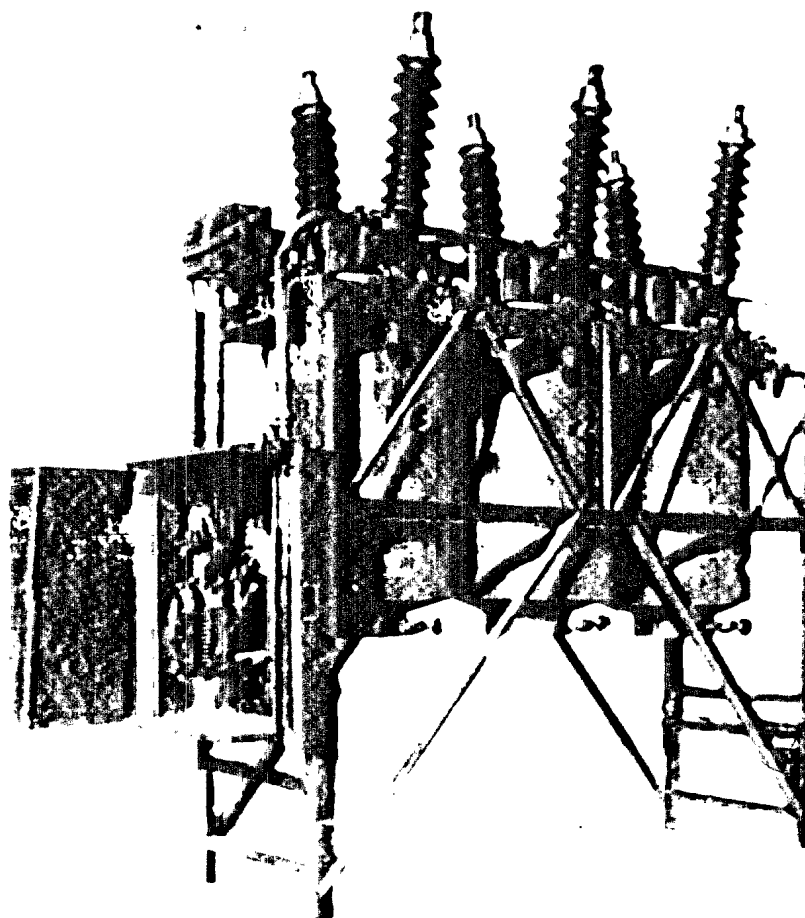
1. Make and break indicator
2. Oil level indicator
3. Oil exhausting pipe
4. Oil outlet valve and safety valve
5. Hand operated lifting mechanism for oil tanks
6. Handle for hand operation
7. Lifting device for mounting and adjusting
8. Ground screw

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高 壓 油 斷 路 器

(G-50 及 G-100)



G-50及G-100型高壓油斷路器為中速的高壓設備，適用於戶外裝置。額定電壓為60仟伏，最高使用電壓為69仟伏，額定電流為600安，斷流容量有500及1000兆伏安兩種。

型 號	電 壓 (仟伏)		額 定 電 流 (安)	極 限 通 過 電 流 (安)	耐 熱 穩 定 電 流 (安)	於額定電壓時 的斷流容量		脫扣 時間 (秒)	重 量 (公斤)	
	額定	最大				(仟安)	(兆伏安)		斷路器重	油重
G-50	60	69	600	15000	7000	1.8	500	0.16	5500	2500
G-100	60	69	600	30000	15000	9.6	1000	0.16	5500	2500

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斷路器每極由一個油箱單位構成；三個單位裝置在同一鐵架上，用傳動軸一根同時操動，操動機構箱裝於同一鐵架之一端，內裝電磁式操動機構，操作電源直流 110 伏。

斷路器內可按裝套管式電流互感器 6 至 12 只。其他標準附件包括：

1. 斷路器“分”“合”指示器。
2. 油面指示器。
3. 放油閥。
4. 出氣管。
5. 手搖式油箱升降機構。
6. 人力操動柄。
7. 接地螺絲。

HIGH VOLTAGE OIL CIRCUIT BREAKER TYPES G-50 AND G-100

High voltage oil circuit breakers G-50 and G-100 are outdoor equipments of medium speed. Rated voltage 60 kv., maximum operating voltage 69 kv., normal current 600 amp., interrupting capacity 500 and 1000 mva. according to different designs.

Type	Voltage (kv.)		Normal current (amp.)	Max. carrying current (amp.)	Short time current (amp.)	Interrupting capacity at rated voltage		Inter-rupting time (sec.)	Weight (kg.)	
	rated	Max.				(ka.)	(mva.)		circuit breaker	oil
G-50	60	69	600	15000	7000	4.8	500	0.16	5500	2500
G-100	60	69	600	30000	15000	9.6	1000	0.16	5500	2500

The circuit breaker has contained separate tanks and is simultaneously for each poles, operated by a single driven axis. The three tanks are fixed on a common steel frame. The electromagnetic operating mechanism is contained in a box fixed on one end of the frame. The power source for the operator being 110 volts D.C.

Six to twelve current transformers of bushing type can be equipped in each circuit breaker. Other standard accessories are:

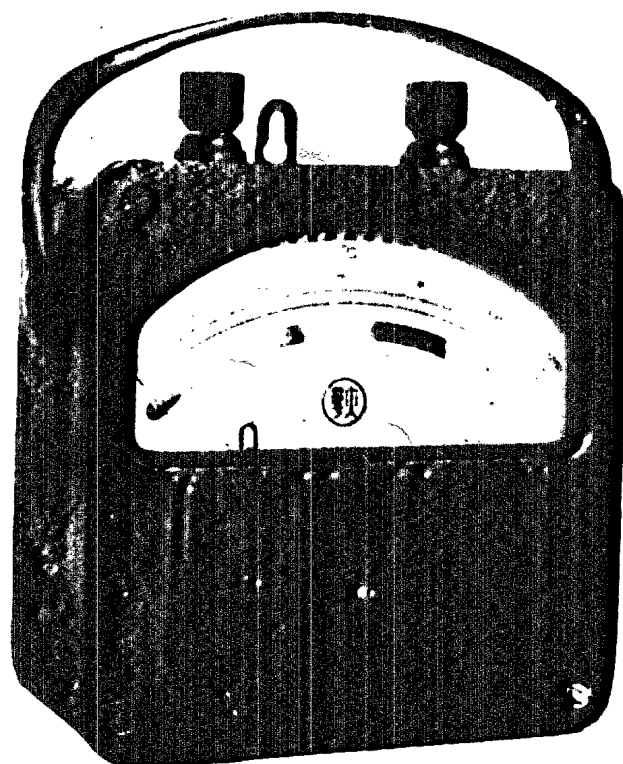
1. Make and break indicator
2. Oil level indicator
3. Oil outlet valve
4. Exhausting pipe
5. Hand operated lifting device for oil tank
6. Handle for hand operating mechanism
7. Ground screw

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高 溫 計

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本高溫計係熱電偶式，供作測驗高溫度用，如鋼鐵鍛煉，工具製造，化學工業等。

主 要 規 格

測量範圍.....	攝氏 1200° 以下
適用熱電偶.....	鉻鎳絲或鎢鎢絲
準確度.....	±2% 滿刻度值
滿刻度電壓.....	18.85 毫伏
滿刻度電流.....	200 微安
刻度使用範圍.....	10%—100%

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PYROMETER

This pyrometer is of thermal couple type, suitable for high temperature measurements in metallurgy, tool making, chemical industries etc.

MAIN SPECIFICATIONS

Temperature range	up to 1200°C
Thermal couple	aluminium-nickel or chromium-nickel wire
Precision	$\pm 2\%$ of full scale deflection
Full scale voltage, MV.	48.85
Full scale current, μ A.	200
Working range of scale	10%-100%

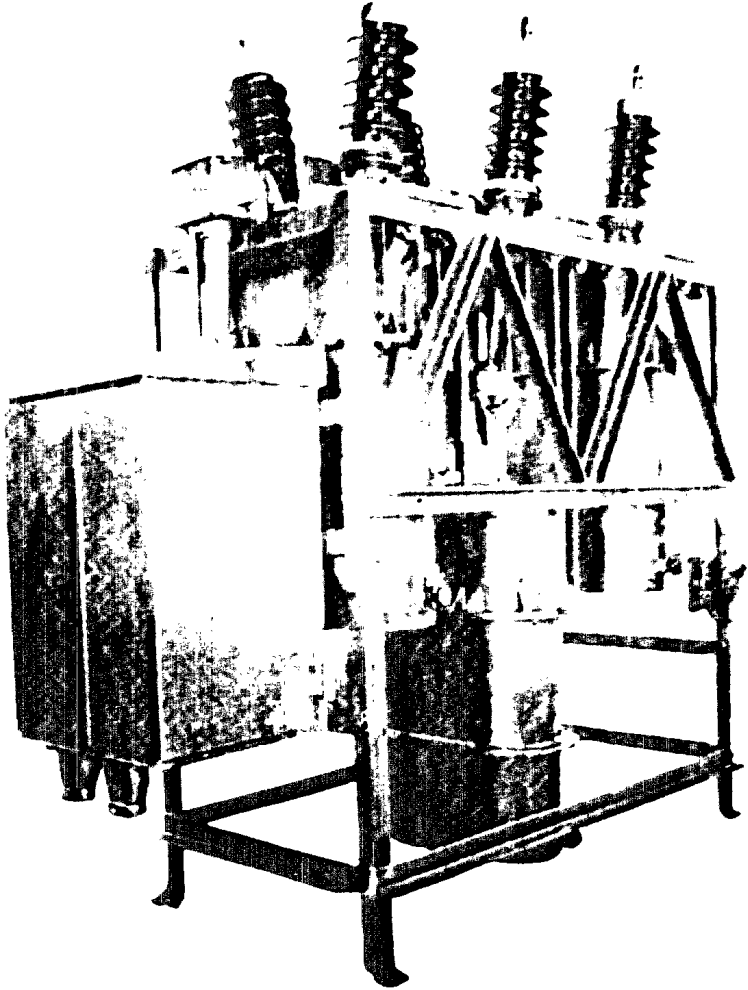
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高 壓 油 斷 路 器

(仿 蘇 聯 MKII-35 型)



此高壓油斷路器，係仿
蘇聯 MKII-35 型製造，為
高速開閉的三極開關，適用
於戶外裝置。額定電壓為35
仟伏，斷流容量為750兆伏
安；額定電流有600及1000
安兩種，用於20仟伏時其
斷流容量為430兆伏安。

額 定 電 壓 (仟伏)	最大工作 電壓 (仟伏)	額定電流 (安)	極限通過電流 (仟安)		熱 穩 定 電 流 (仟安)			總重量(約) (公斤)
			有效值	峯值	1 秒	5 秒	10 秒	
35	40.5	600	17.3	30	17.3	12.5	9	3400

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斷路器每極由一個油箱單位構成，三個單位裝置在同一鐵架上。用傳動軸一根同時操動，操動機構為電磁式 ШИЭ-2 型（仿蘇聯式）。電源為 110 或 220 伏直流。

斷路器內安裝套管式電流互感器 6 或 12 只其他標準附件包括：

1. 斷路器“分”“合”指示器。
2. 油面指示器。
3. 放油管。
4. 出氣閥及完全閘。
5. 手搖式油箱升降機構。
6. 人力操動柄。
7. 安裝及調節用起重頂。
8. 接地螺絲。

HIGH VOLTAGE OIL CIRCUIT BREAKER

This high voltage oil circuit breaker is manufactured after the Soviet Model MKII-35. It is a high speed equipment suitable for outdoor installation. Rated voltage 35 kv., interrupting capacity 750 mva., normal current 600 amp. or 1000 amp. according to different designs. 20 kv. voltage, the interrupting capacity is 430 mva.

Rated voltage (kv.)	Max. working voltage (kv.)	Normal current (amp.)	Max. carrying current (ka.)		Current attaining thermal stability within (ka.)			Total weight (kg.)
			effective	peak	1 sec.	5 sec.	10 sec.	
35	40.5	600 or 1000	17.3	30	17.3	12.5	9	3400

The three poles of the circuit breaker are contained in three tanks fixed on an iron frame, and are simultaneously operated by a single driving axis. The electromagnetic operating mechanism type ШИЭ-2 (Soviet type) is designed for 110 or 220 V. D.C. supply.

Each circuit breaker can be equipped with 6 to 12 current transformer of bushing type. Other standard accessories are:

1. Make and break indicator
2. Oil level indicator
3. Oil exhausting pipe
4. Oil outlet valve and safety valve
5. Hand operated lifting mechanism for oil tanks
6. Handle for hand operation
7. Lifting device for mounting and adjusting
8. Ground screw

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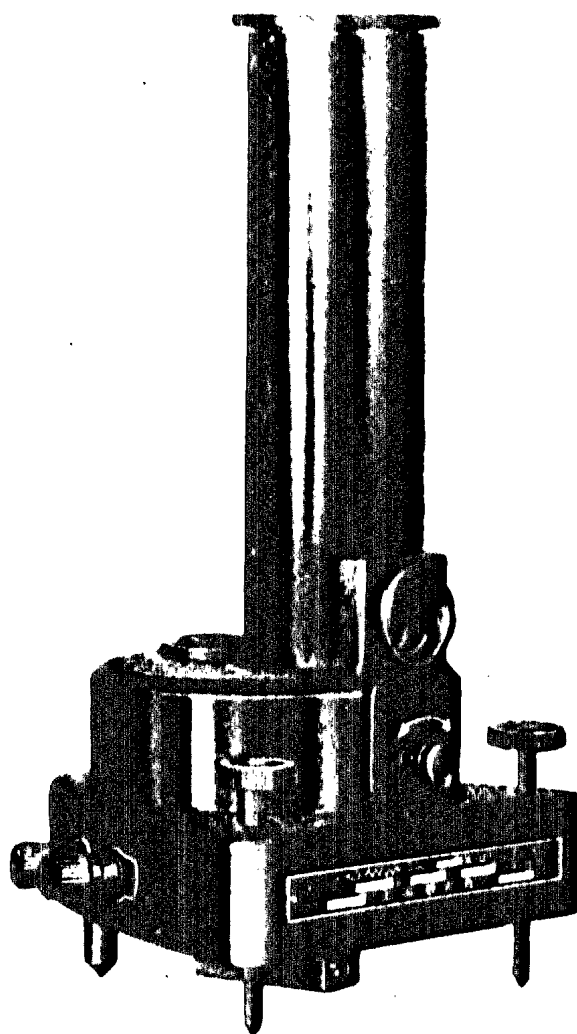
座 式 反 光 微 電 計

25X1

本微電計應用於惠斯通電橋，凱文電橋及
依照電橋線路之一切工礦儀器，作為零點指示
之用。

主 要 規 格

電流常數 $3 \times 10^{-8} \sim 5 \times 10^{-10}$ 安/公厘
電壓常數 $1.5 \times 10^{-6} \sim 5 \times 10^{-6}$ 伏/公厘
震盪時間 6~10 秒/每週
內阻 25~6000 歐姆
臨界電阻 50×10000 歐姆
外形尺寸 $260 \times 150 \times 150$ 公厘



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PORTABLE REFLECTION TYPE GALVANOMETER

This galvanometer can be used as zero indicator in Wheastone bridge or Kelvin bridge for measurments in the factories.

MAIN SPECIFICATIONS

Current sensitivity, amp/mm.	$3 \times 10^{-8} \sim 5 \times 10^{-10}$
Voltage sensitivity, volt/mm.	$1.5 \times 10^{-6} \sim 5 \times 10^{-6}$
Period, s/c	6-10
Internal resistance, ohms.	25-6000
Critical damping resistance, ohms.	50-10000
Size, mm.	$260 \times 150 \times 150$

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25X1

閘式避雷器

25X1

(仿蘇聯 PBII 與 PBC 型)

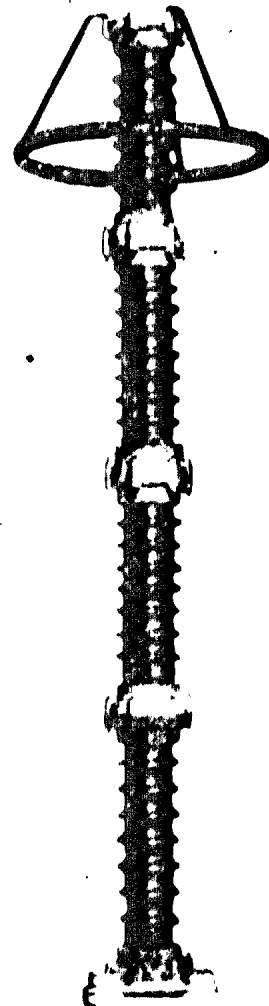
閘式避雷器係仿蘇聯 PBII 與 PBC 型製造。用以防禦雷擊過電壓危險，保護高壓電氣設備的絕緣。

閘式避雷器可以裝設於戶內或戶外，其構造的主要元件為電阻片和火花間隙，電阻片的數目按其額定電壓而定。

PBII 型閘式避雷器額定電壓為 3, 6, 10 仟伏，相對的最大容許電壓為 3.8, 7.6, 12.8 仟伏；用於變電所、發電站，保護比較不重要的交流電氣設備；並只單一使用，不可組合成套以用於高壓設備或為其他避雷器輔助之用。

PBC 型閘式避雷器用作保護，3-220 仟伏額定電壓的各種固定型交流設備及露天變電所的電氣設備；（額定電壓在 154 仟伏及 220 仟伏級者目前尚未生產）。

額定電壓 20 仟伏級及以下各級的 PBC 型避雷器，只由一個元件構成，額定電壓 30 仟伏級及以上各級避雷器由兩個或兩個以上的標準元件組成，元件組合方式可根據客戶要求而製造。



25X1

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中央人民政府第一機械工業部

AUTO-VALVE LIGHTNING ARRESTER

This lightning arrester is manufactured after the Soviet Model PBII and PBC. It is made for protecting the insulation of the high voltage electrical equipment from damage in thunderstorm. It can be installed outdoor or indoor. Its main acting components are resistance plates and spark gaps; the number of the resistance plates depends on the rated voltage.

The rated voltage of PBII type lightning arresters are 3, 6, and 10 kv. while their maximum voltages are 3.8, 7.6 and 12.8 kv. respectively. They are installed individually at power plants and substations to protect the less important A.C. electrical equipments. They should not be connected in cascade for protecting an equipment of high voltage than the voltage rating of individual arrester, or used as an auxiliary for another lightning arresters.

PBC type lightning arresters are used to protect various stationary A.C. equipments and outdoor substations with rated voltages 3 to 220 kv. (those for voltages above 154 kv. are not yet manufactured).

PBC type of rated voltage less than 20 kv. consists of a single element, that of rated voltage above 30 kv. consists of two or more standard elements. The combination of elements can be made to customer's order.

25X1

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25X1

普 通 車 床

(仿蘇聯 1 Д 65 型)

ENGINE LATHE

25X1

中 華 人 民 共 和 國
中 央 人 民 政 府 第 一 機 械 工 業 部

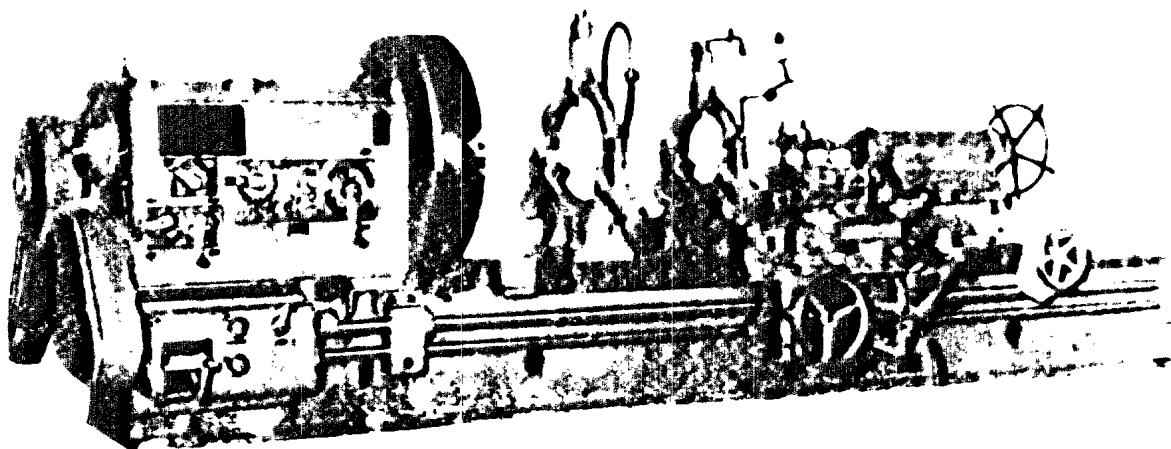
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CENTRAL PEOPLE'S GOVERNMENT

普 通 車 床

25X1

(仿蘇聯 1A65 型)



本機係仿蘇聯 1A65 型普通車床製造。

本機床適用於在卡盤上和頂尖間作大型零件的各種車削工作。

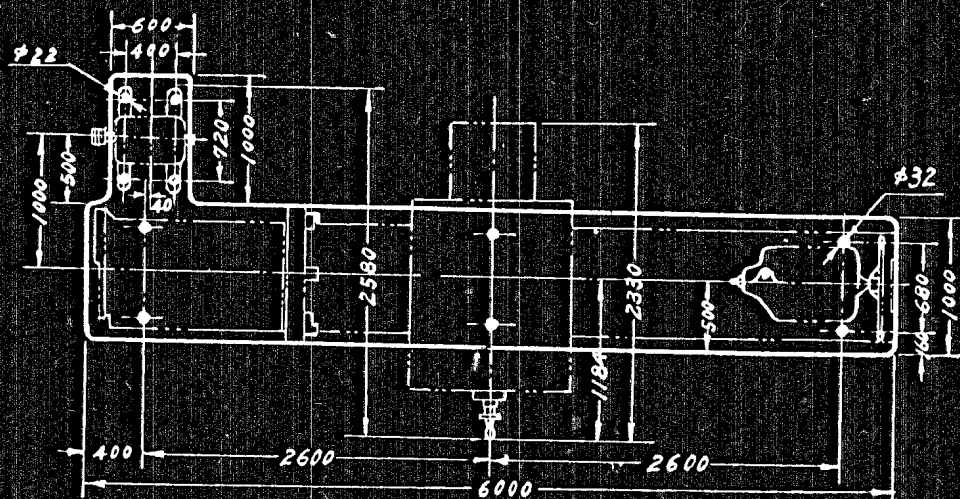
主軸有 12 種速度，由變速箱控制；送刀箱有 24 種送刀量，並可進行公制、英制和模數螺紋的切削。

落下錘機構可防止機床的超負荷。由手輪經過齒條傳動，可使尾座沿床身移動。

本機床附件有：四爪卡盤，跟刀架，中心架，及頂尖等。

25X1

中心高	500 公厘
中心距	3000 公厘
加工最大直徑:	
在刀架以上	645 公厘
在刀架下部以上	730 公厘
在床面以上	1020 公厘
桿料 (通過主軸孔)	97 公厘
加工最大長度	2250 公厘
刀架送刀量種數	24
主軸每轉刀架送刀量範圍:	
縱向	0.225—3.15 公厘
橫向	0.114—1.6 公厘
車削螺紋:	
公制螺紋的螺距	1—224 公厘
英制螺紋每吋牙數	28—2
模數螺紋的模數	0.25—56
主軸轉速種數	12
主軸轉速範圍	4.25—194 轉/分
三相交流電動機:	
主傳動用:	
功率	20 瓩
轉速	1450 轉/分
冷卻液泵用:	
功率	0.15 瓩
轉速	2700 轉/分
外形尺寸 (長×寬×高)	6000×2580×1620 公厘
機床淨重	約 10500 公斤



ENGINE LATHE

This machine is manufactured after the Soviet Model 1Д65 Engine Lathe, suitable for turning parts of large size to be held between centers or in chuck.

12 spindle speeds are available, the feed gear box provides 24 feeds and a wide range of threading, metric, Whitworth and Module threads can be cut.

The falling worm mechanism serves for protecting from overloading. The sliding of tailstock is obtained by turning the handwheel through gear and rack transmission.

Equipment: 4-jaw chuck, steady rest, follow rest and centers.

MAIN SPECIFICATIONS

Height of center, mm.	500
Distance between centers, mm.	3000
Maximum turning Dia.:-	
Swing over cross slide, mm.	645
Swing over carriage, mm.	730
Swing over bed, mm.	1020
Bar capacity, mm.	37
Maximum turning length, mm.	2250
Number of feeds	24
Range of feeds:	
Longitudinal, mm.	0.225-3.15
Cross, mm.	0.114-1.6
Threads:	
Metric, pitch in mm.	1-224
Whitworth, threads per inch	28-2
Module	0.25-56
Number of spindle speeds	12
Range of spindle speeds, R.P.M.	4.25-194
Main drive motor, 3-phase:	
Power rating, kw.	20
Speed, R.P.M.	1450
Coolant pump motor, 3-phase	
Power rating, kw.	0.15
Speed, R.P.M.	2700
Overall dimensions (length × width × height), mm.	6000 × 2580 × 1620
Net weight, kg.	approx. 10500

25X1

六角車床

25X1

(仿蘇聯 1325 型)

TURRET LATHE

25X1

中華人民共和國
中央人民政府第一機械工業部

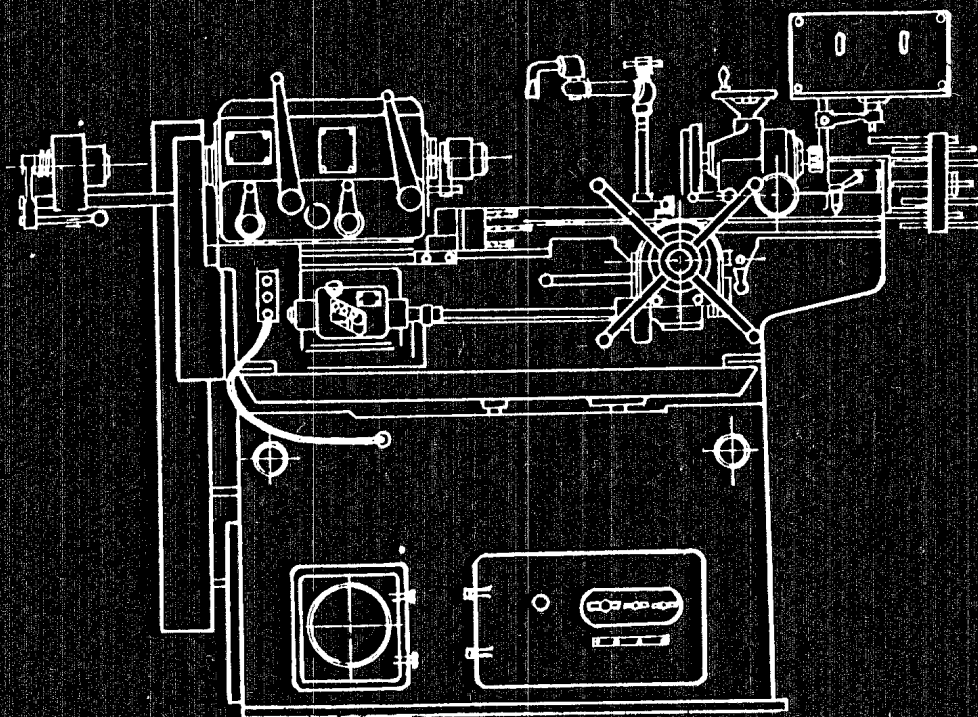
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25X1

25X1

六角車床

(仿蘇聯 1325 型)



本機床係仿蘇聯 1325 型六角車床製造，適用於各種材料工件的車削（在彈簧卡盤或普通卡盤上），刀具固定在迴轉刀架的十二個孔中。

機床由一個電動機帶動。

當迴轉刀架縱向與迴轉聯合送刀時，藉仿形板可進行成形件的加工。

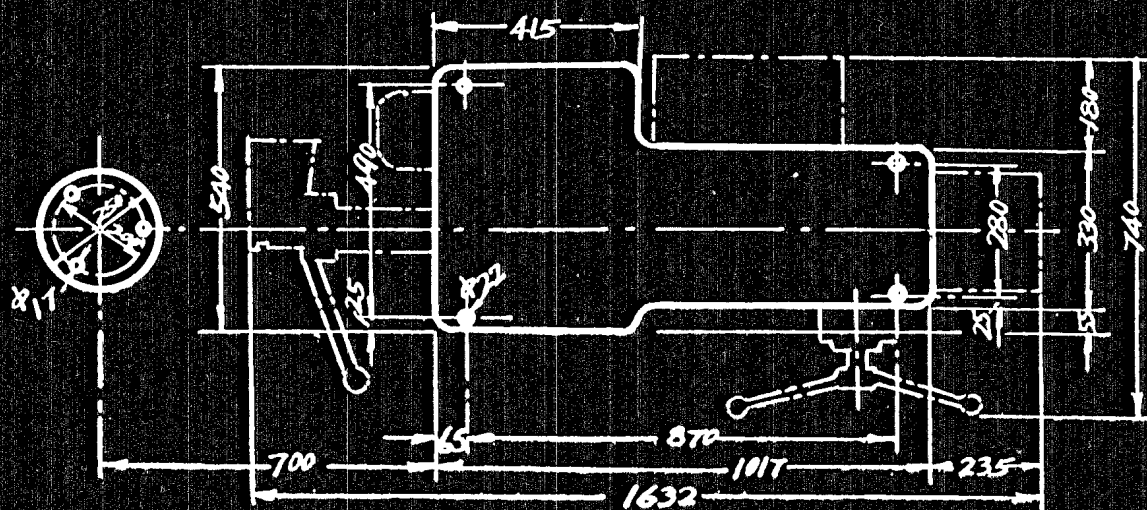
主軸的轉速用變速箱控制，縱向送刀由送刀箱控制。

機床可藉擋鐵的調整，來自動停止縱向送刀。

25X1

主 要 規 格

中心高	115 公厘
主軸端至迴轉刀架距離	90—400 公厘
主軸孔徑	26 公厘
加工桿料最大尺寸:	
圓料(直徑)	25 公厘
方料(對邊)	18 公厘
六角料(對邊)	21 公厘
切削最大長度	150 公厘
卡盤上最大加工直徑:	
在刀架上部以上	250 公厘
在床面以上	300 公厘
迴轉刀架最大縱向移動距離	330 公厘
主軸轉速種數	6
主軸轉速範圍	140—1380 轉/分
迴轉刀架縱向送刀量種數	4
主軸每轉刀架送刀量範圍	0.06—0.25 公厘
三相交流電動機:	
功率	2.2 瓩
轉速	1450 轉/分
外形尺寸(長×寬×高)	1815×740×1290 公厘
機床淨重	約 900 公斤



TURRET LATHE

This machine is manufactured after the Soviet Model 1325 Turret Lathe, which is suitable for turning of bars to be held in 3-jaw chuck or in collet chuck. The turret provides 12 holes for tools.

The machine is driven by individual motor.

In combination of longitudinal and cross feeds of turrets with template operates form cutting.

Headstock provides change of spindle speeds, and feed box controls longitudinal feeds.

Longitudinal feed trips off automatically by respective adjustable stop.

MAIN SPECIFICATIONS

Height of center, mm.	115
Distance between spindle nose and front face of turret, mm.	90-400
Spindle bore, mm.	26
Bar capacity:-	
Round (diameter), mm.	25
Square (side), mm.	18
Hexagonal (distance between opposite sides), mm.	21
Maximum turning length, mm.	150
Maximum Dia. held in chuck:-	
Swing over saddle, mm.	250
Swing over bed, mm.	300
Maximum longitudinal travel of turret, mm.	330
Number of spindle speeds	6
Range of spindle speeds, R.P.M.	140-1380
Number of longitudinal feed of turret	4
Range of longitudinal feed of turret, mm. (per revolution of spindle)	0.06-0.25
3-phase alternating current motor:	
Power rating, kw.	2.2
Speed, R.P.M.	1450
Overall dimensions (length \times width \times height), mm.	1815 \times 740 \times 1290
Net weight, kg.	Approx. 900

25X1

N° 18

1264175
外 圓 磨 床

(仿蘇聯 3151 型)

HYDRAULIC CYLINDRICAL GRINDING MACHINE

中 華 人 民 共 和 國
中 央 人 民 政 府 第 一 機 械 工 業 部

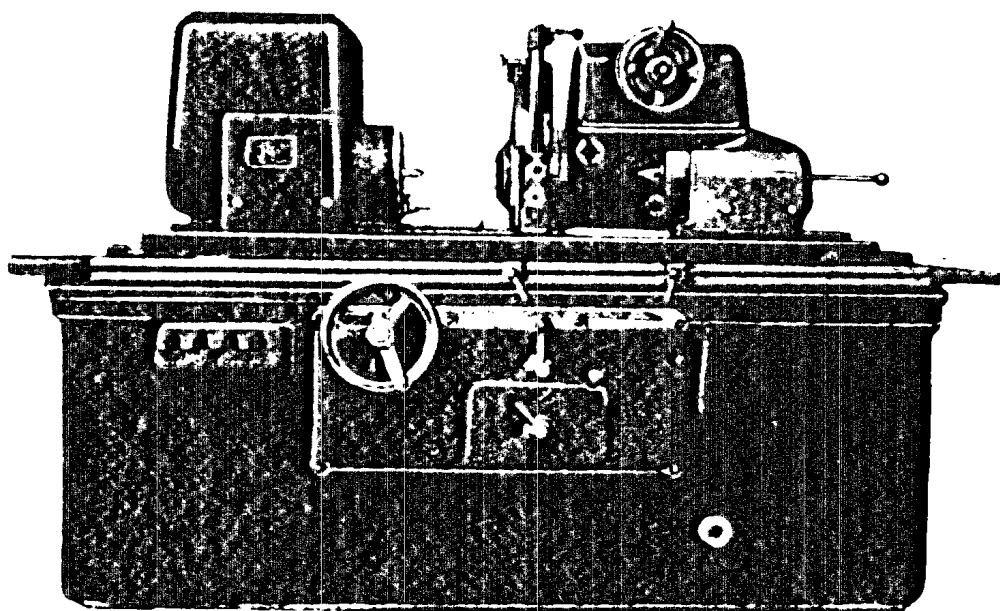
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25X1

25X1

外 圓 磨 床

(仿 蘇 聯 3151 型)



本機床係仿蘇聯 3151 型外圓磨床製造。

本機床適用於在頂尖間磨削圓柱形工件。

移置 V 形皮帶在塔輪的位置可變換工作件的迴轉速度。

工作台的縱向移動，由液壓及手動操作。工作台行程速度，由液壓系統調整閥控制。砂輪架的橫向移動，用液壓及手動來進行。

所需要的磨削長度及工作台行程的變換方向均由擋鐵來控制。

砂輪轉速的變換（兩種速度）由交換皮帶輪得到。

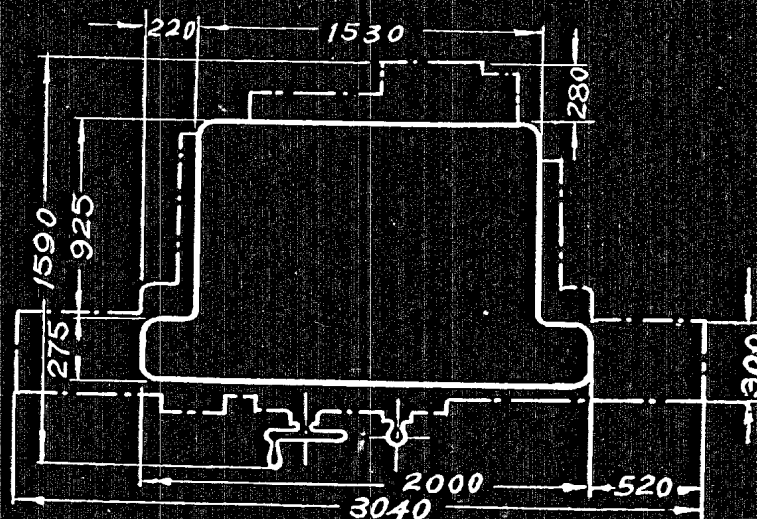
機床由四個電動機傳動，由一個按鈕站控制。

25X1

主 要 規 格

中心高(台面上) 125 公厘
 中心距 750 公厘
 砂輪軸中心線至加工件中心線間距離:
 最小 225 公厘
 最大 425 公厘
 加工件直徑:
 最小 0 公厘
 最大(用中心架) 60 公厘
 最大(不用中心架) 150 公厘
 磨削最大長度 750 公厘
 工作台最大縱向移動距離(液壓及手動)
 780 公厘
 工作台最大迴轉角度 5°
 床頭和尾座的軸孔錐度 莫氏 4 號
 砂輪架最大移動距離:
 手動 150 公厘
 機動(吃刀) 50 公厘
 橫向送刀刻度盤刻度值 0.005 公厘
 砂輪尺寸:
 直徑(最大/最小) 600/450 公厘

寬度 60 公厘
 孔徑 305 公厘
 床頭主軸轉速 75; 150; 300 轉/分
 工作台移動速度(液壓傳動):
 最小 0.08 公尺/分
 最大 10 公尺/分
 砂輪快速進退移動速度 2 公尺/分
 三相交流電動機:
 砂 輪 用: 功率 7 瓩
 轉速 1440 轉/分
 床 頭 用: 功率 0.5 瓩
 轉速 940 轉/分
 液 壓 泵 用: 功率 1.7 瓩
 轉速 1440 轉/分
 冷 却 液 泵 用: 功率 0.125 瓩
 轉速 2800 轉/分
 外形尺寸(長×寬×高)
 2260×1590×1770 公厘
 機床淨重 約 3900 公斤



25X1

HYDRAULIC CYLINDRICAL GRINDING MACHINE

This machine is manufactured after the Soviet Model 3151 Hydraulic Cylindrical Grinding Machine, which is designed for precision center type cylindrical grinding operations.

The headstock spindle is driven by V-belts from a motor mounted on the headstock, various working speeds are available by shifting V-belt on cone pulley.

The traverse of the table is operated hydraulically or manually, its speed is controlled by a hydraulic control valve. The wheel-head is provided with hydraulic and manual cross feed.

The stroke and reversal of the table are controlled by adjustable dogs.

Two spindle speeds of grinding wheel are obtained by changing wheel spindle sheave.

The machine is equipped with four motors, controlled by one push button station.

MAIN SPECIFICATIONS

Height of center, mm.	125	Width, mm.	60
Distance between centers, mm.	750	Hole, mm.	305
Distance between wheel axis and center line of work:		Work head speeds, R.P.M.	75, 150, 300
Minimum, mm.	225	Table speeds (hydraulic):	
Maximum, mm.	425	Minimum, M/min	0.08
Diameter that can be ground:		Maximum, M/min	10
Minimum, mm.	0	Wheelhead rapid traverse, M/min	2
Maximum (with steady rest), mm.	60	3-phase A.C. motors:	
Maximum (without steady rest), mm.	150	Wheelhead drive:	
Maximum length that can be ground, mm.	750	Power rating, kw.	7
Maximum traverse of table, (hydraulic or by hand), mm.	780	Speed, R.P.M.	1440
Maximum swivel of table	5°	Headstock drive:	
Morse taper in headstock and footstock spindles,	Morse No. 4	Power rating, kw.	0.5
Maximum cross travel of wheelhead:		Speed, R.P.M.	940
Hand, mm.	150	Hydraulic pump drive:	
Hydraulic (feed), mm.	50	Power rating, kw.	1.7
Cross feed per division, mm.	0.005	Speed, R.P.M.	1440
Size of grinding wheel:		Coolant pump drive:	
Diameter (maximum/minimum), mm.	600/450	Power rating, kw.	0.125
		Speed, R.P.M.	2800
		Overall dimensions (length × width × height), mm.	2260 × 1590 × 1770
		Net weight, kg.	Approx. 3900

D. C. ELECTRIC WELDING MACHINE

This welding set is manufactured after the Soviet Model CYT-2P. It is made for D.C. arc welding purpose.

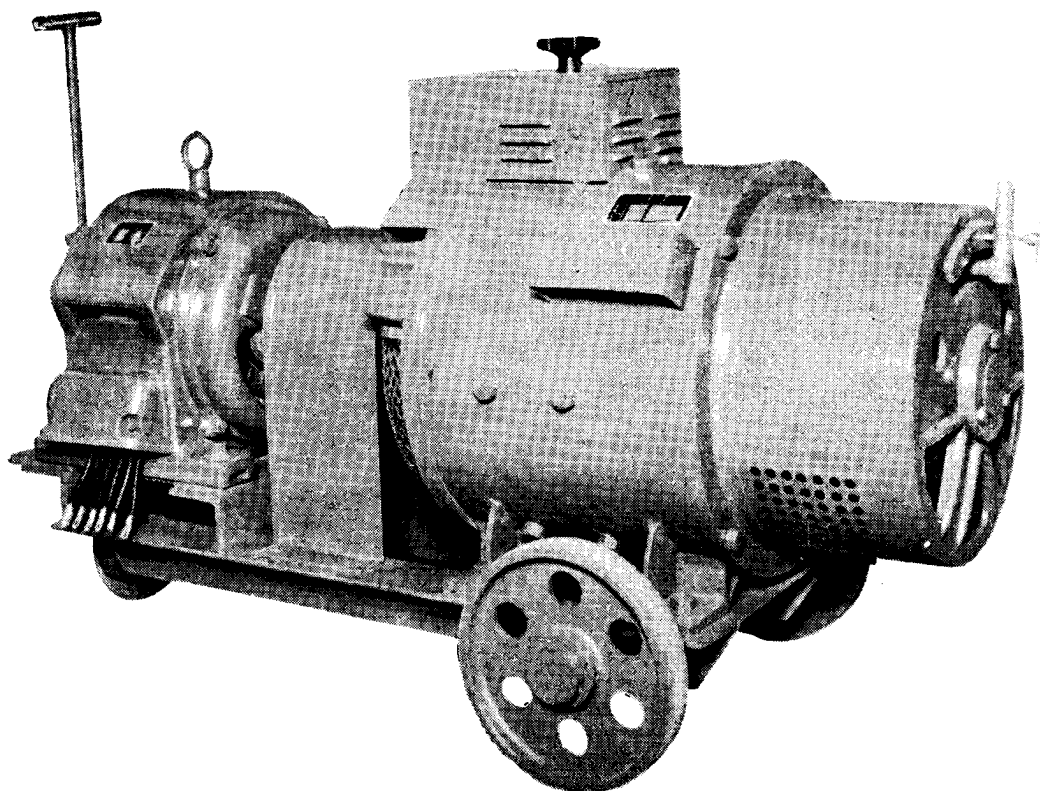
This welding set consists of a D.C. generator and an A.C. induction motor. The set can also be driven by other kind of prime movers in case A.C. supply is unavailable. A rheostat is provided on the top of the generator to regulate the welding current to the desired value.

MAIN SPECIFICATIONS

Rated capacity of the generator, kw.	9.6
No-load voltage, V.	50-75
Load voltage, V.	30
Allowable current on 100% rating, A.	250
75% rating, A.	280
50% rating, A.	320
Weight, kg.	661

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直 流 電 焊 機



此直流電焊機係仿蘇聯 CYΓ-2P 型製造，供作直流焊接、熔化、之用。

本機由一具直流電焊發電機及一具三相交流感應電動機組成；在無交流電源之處所，亦可利用其他原動機拖動。在電焊發電機頂部裝有電阻以調節操作電流。

主 要 規 格

電焊發電機額定容量	9.6 瓩
空載電壓	50~75 伏
負載電壓	30 伏
在下列負載率時容許的電流：100%	250 安
75%	280 安
50%	320 安
總重	661 公斤

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THREE-PHASE SQUIRREL-CAGE INDUCTION MOTOR

This series of motors is manufactured after the Soviet Model ДАМКО. It is suitable for frequent full voltage start in coal mine, petroleum, power plants and other industries.

MAIN SPECIFICATIONS

Power ratings, kw.	140—1250
Synchronous speed, R.P.M.	1500, 1000, 750 and 500
Voltage, V.	3000 and 6000
Frequency c/s	50.

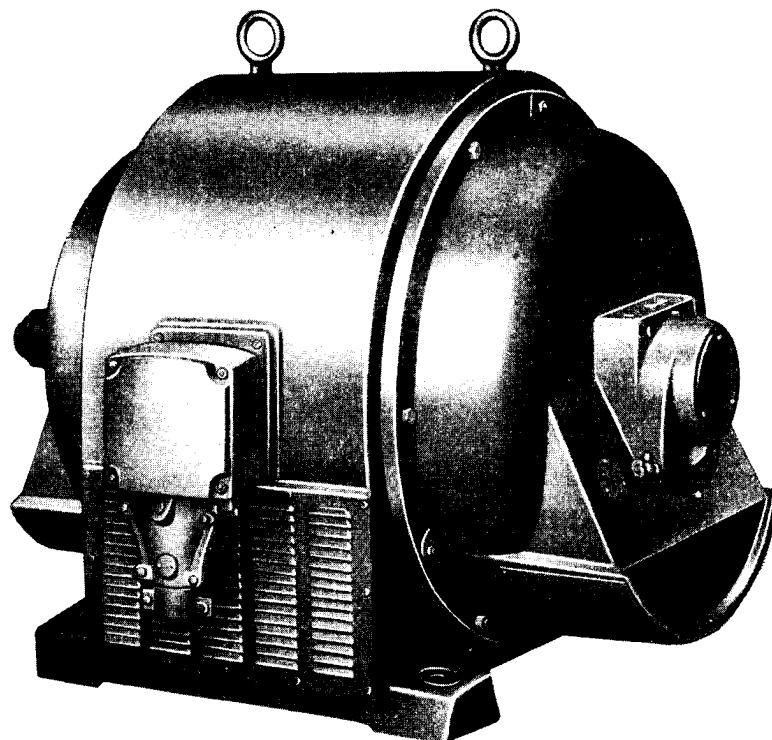
Motor rotors are of squirrel-cage type. When they are used at room temperature of 35°C on full load capacity, their temperature rise fulfills the specification of ГОСТ 183-41, USSR.

Motors are of protection type. They can be used at a room temperature higher than 35°C, in damp and dusty places, or in acidic or caustic vapour surroundings when equipped with conduit ventilation.

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三 相 鼠 籠 型 感 應 電 動 機

(仿 蘇 聯 ДАМСО 系 列)



本系列電動機，係仿照蘇聯 ДАМСО 型系列製造，適用於經常滿壓起動，用於煤礦，石油，發電廠及其他工業的機器傳動。

主 要 規 格

功率範圍	140~1250 瓩
同期速度	1500, 1000, 750 及 500 轉/分
電壓	3000 和 6000 伏
週率	50 週/秒

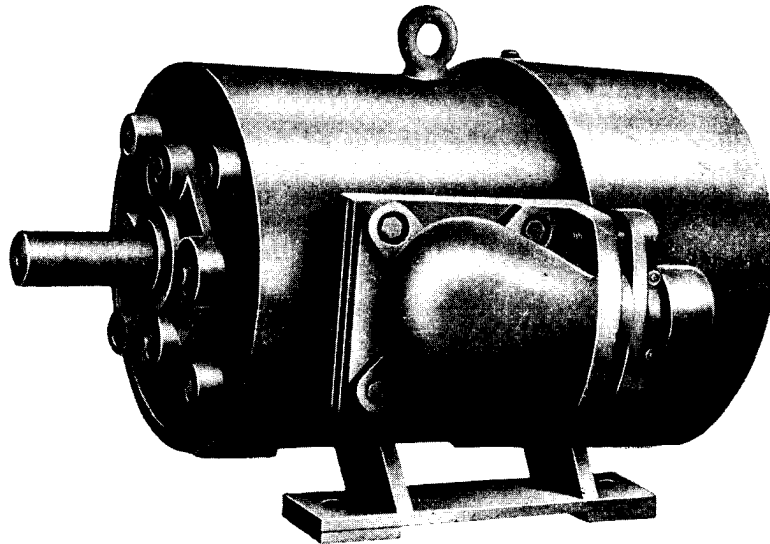
本系列電動機轉子是雙鼠籠型，用於周圍溫度為攝氏 35° 及滿載出力時，溫升限度與蘇聯國家標準 ГОСТ 183-41 相同。

本系列電動機是防護式結構，如在潮濕，有灰塵，有酸，或有其他腐蝕性的蒸汽的場所用管道通風時，則室溫可稍高於攝氏 35°。

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三 相 交 流 防 爆 感 應 電 動 機

(仿 蘇 聯 KO 系 列)



本系列電動機係仿照蘇聯 KO 系列同型產品製造，專用於煤礦井下及含有大量可燃性氣體或煤塵的環境中。

本系列電動機為外部風冷並於轉子端環處鑄有扇葉以助冷卻，並具有鼠籠型鑄鋁轉子，軸承分別採用鋼珠或鋼柱軸承，各接線頭均由特製的防爆型接線盒蓋住。

本系列電動機適用於連續工作，50週波，周圍空氣溫度不得超過攝氏25°（煤礦中最高容許溫度）額定功率為4至100瓩，同期轉速為1500, 1000, 750轉/分，線電壓為380伏，按需要亦可供應220伏。

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THREE PHASE EXPLOSION-PROOF INDUCTION MOTOR

This series explosion-proof induction motor is manufactured after the Soviet Model KO. It is made specially for use in coal mines, and those places where high content of inflammable gas or coal dusts present.

The motor is externally cooled by fan on the rotor shaft. The internal air circulation of the motor is accomplished by the fins casted together on both ends of the aluminium rotor cage. Ball and roller bearings are used in the motor for better and safety running. Aside other special fittings the wire terminal box is as well of explosion-proof pattern.

The motor is designed for continuous ratings, 50 cycles and ambient temperature below 25°C (the maximum allowable temperature in coal mines); rated output, 4-100 kw; Syn. speed, 1500, 750 R.P.M.; line voltage, 380V (or 220V on request).

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N° 7

六角車床

(仿蘇聯 1K36 型)

TURRET LATHE

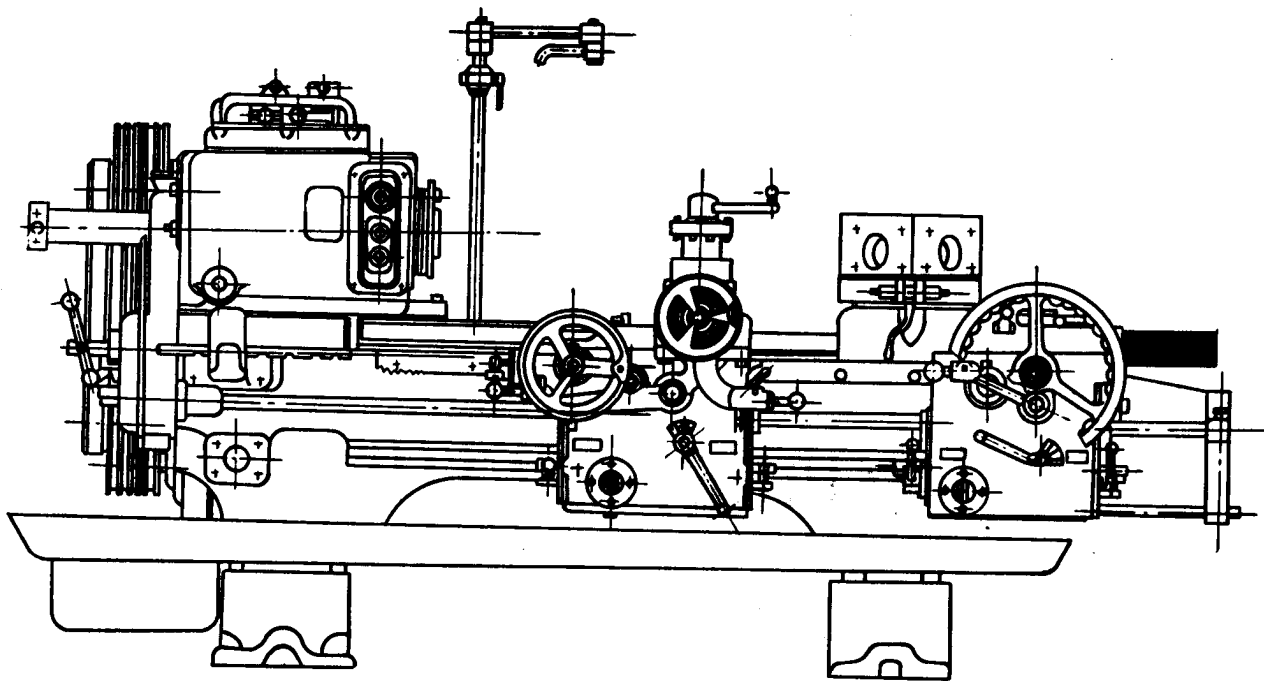
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六角車床

(仿蘇聯 1K36 型)



本機床係仿蘇聯 1K36 型六角車床製造。

本機床適用於製造時需要許多連續工序(車外圓, 車螺紋等)的零件的加工。加工件固定在三爪卡盤或其他卡緊裝置之內, 所有工件加工時必需的刀具均安裝在迴轉刀架六個孔內的夾具中或橫刀架的四個位置上。機床的傳動由單獨電動機帶動。

主軸轉速由變速箱控制, 迴轉刀架及橫刀架的送刀由裝在溜板下的送刀箱來控制。

主軸可正轉和反轉。

迴轉刀架有可逆送刀及與工作送刀聯鎖的快速移動(在返回行程終了時, 進刀和退刀能自動停閉), 並有自動停止送刀的擋鐵裝置, 及防止送刀機構超負荷保險裝置。迴轉刀架及擋鐵鼓輪可同時用手轉到需要的位置。

橫刀架可作縱向和反橫向送刀, 並用擋鐵自動停止送刀。橫刀架設有帶擋鐵的鼓輪, 其中六個擋鐵用來停止縱向送刀, 一個擋鐵用來停止橫向送刀。

利用卡具在機床上可車錐體溝槽及螺紋。

主 要 規 格

中心高 210 公厘

主軸端面至迴轉刀架的距離：

最小 260 公厘

最大 1177 公厘

在卡盤中最大加工直徑:

在床面以上 440 公厘

在刀架上部以上 350 公厘

在刀架下部以上 420 公厘

迴轉刀架最大縱向移動距離（手動及機動） 917 公厘

橫刀架最大移動距離(手動及機動):

縱向 1012 公厘

橫向 272 公厘

主軸轉速種數 12

主軸轉速範圍：

正轉 44—1000 轉/分

反轉 48—1094 轉/分

縱向送刀及橫向送刀種數各 16

主軸每轉迴轉刀架及橫刀架送刀量範圍:

縱向 0.07—2.29 公厘

橫向 0.03—1.00 公厘

三相交流電動機：

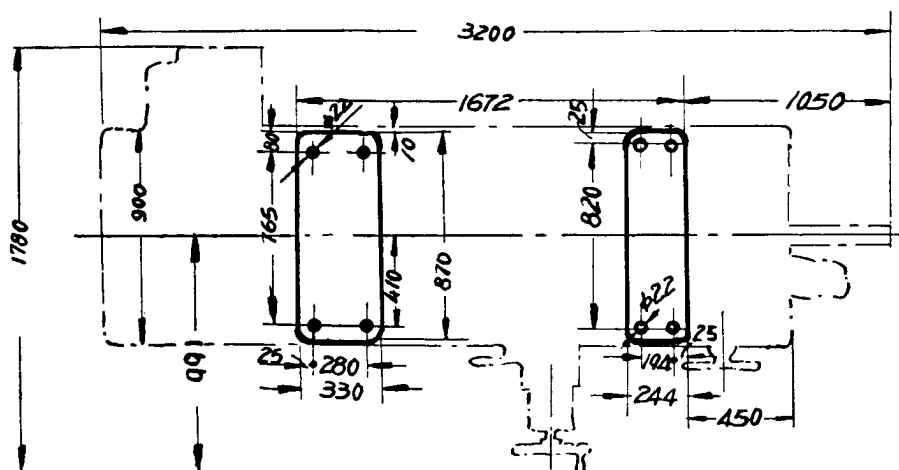
功率 10 瓩

轉速 1500 轉/分

外形尺寸(長×寬×高):

..... 3200 × 1780 × 1450 公厘

機床淨量 約 2980 公斤



TURRET LATHE

This machine is manufactured after the Soviet Model 1K36 Saddle type Turret Lathe, suitable for parts requiring a series of successive operations (turning, threading, etc.). The parts to be machined are held either in a 3-jaw chuck or in other work holding fixtures. Tools necessary for operation are mounted in six holes in turret head or clamped in four positions in the tool post of the cross slide. The machine is driven by individual motor.

Headstock provides change of spindle speeds. Feeds for turret saddle and cross slide are controlled individually by feed boxes fixed on aprons.

Spindle revolves in both directions.

The turret saddle has reversible power feed, hand travel and power rapid reverse (forward and backward) with automatic disengagement at the end of the back stroke. A safety interlock prevents the feed and rapid reverse mechanisms from engaging at the same time. The feed mechanism is provided with automatic stop roll and overload release. Turret head and stop roll are manually operated.

The cross slide has reversible power feed and hand travel in both the longitudinal and cross directions. Six longitudinal and one cross feed stops automatically trip the cross slide feeds in both directions.

With special attachment, the machine is able to operate cone turning, grooving and threading.

MAIN SPECIFICATIONS

Height of centers, mm.	210	Cross, mm.	272
Distance between spindle nose and the front face of turret:		Number of spindle speeds	12
Minimum, mm.	260	Range of spindle speeds,	
Maximum, mm.	1177	Forward, R.P.M.	44—1000
Maximum Dia. of work to be machined, it held in chuck:		Reverse, R.P.M.	48—1094
Swing over bed, mm.	440	Number of turret and cross slide feeds . .	16
Swing over the upper part of saddle, mm.	350	Longitudinal turret feeds per revolution of spindle, mm.	0.07—2.29
Swing over the lower part of saddle, mm.	420	Cross slide feeds per revolution of spindle:	
Longitudinal travel of turret (hand and power), mm.	917	Longitudinal, mm.	0.07—2.29
Travel of cross slide carriage (hand and power):		Cross, mm.	0.03—1.0
Longitudinal, mm.	1012	3-phase, alternating current motor:	
		Power rating, kw.	10
		Speed, R.P.M.	1500
		Overall dimensions (length × width × height), mm.	3200 × 780 × 1450
		Net weight, kg.	Approx. 2980

N° 5

立 式 銑 床

(仿 蘇 聯 6 H 12 型)

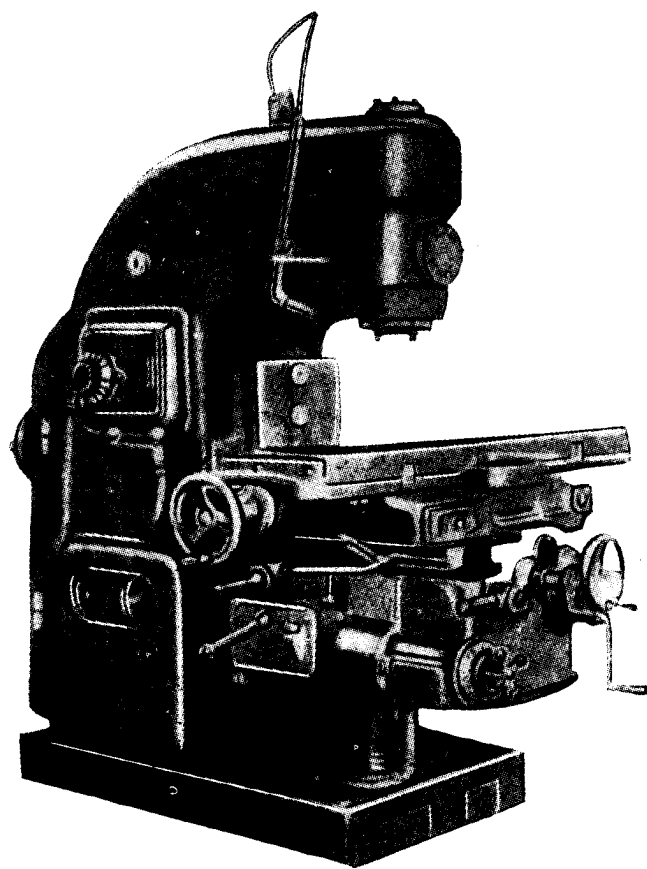
VERTICAL MILLING MACHINE

中 華 人 民 共 和 國
中 央 人 民 政 府 第 一 機 械 工 業 部

THE FIRST MINISTRY OF MACHINE BUILDING INDUSTRY,
CENTRAL PEOPLE'S GOVERNMENT, PEOPLE'S REPUBLIC OF CHINA.

立 式 銑 床

(仿蘇聯 6H12 型)



本機床係仿蘇聯 6H12 型立式銑床製造，適用於單獨及成批生產中用端面銑刀、帶柄銑刀、角度銑刀、及成形銑刀進行各種銑切工作。

工作台在三個方向內，均能機動送刀及快速移動，並能縱向自動連續的作往復運動。機床結構堅固，功率大和主軸的轉速高，可進行高速切削。

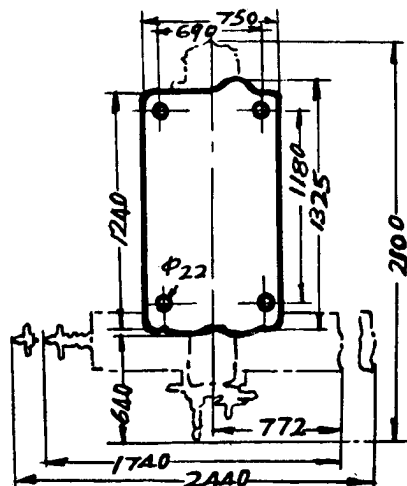
主軸轉速及工作台的送刀量，由變速箱和送刀箱調整。

機床上備有能夠選擇螺母及絲槓間隙的調整機構，因此可以進行順向銑切。

主軸及工作台送刀機構各自單獨傳動，保證了採用合理的切削規範。

主 要 規 格

主軸端面到工作台面間距離:	
最小	30 公厘
最大	450 公厘
床身垂直導軌面到工作台中心的距離:	
最小	205 公厘
最大	455 公厘
工作台面 (長×寬)	1250×320 公厘
工作台最大移動距離:	
縱向 (機動和手動)	700 公厘
橫向 (機動/手動)	230/250 公厘
昇降 (機動/手動)	400/420 公厘
T 形槽間距離	70 公厘
主軸轉速種數	18
主軸轉速範圍	30—1500 轉/分
工作台的縱向, 橫向, 及昇降送刀量種數各	
縱向送刀量範圍	19—950 公厘/分
橫向送刀量範圍	19—950 公厘/分
昇降送刀量範圍	縱向的 $\frac{1}{3}$
工作台快速移動:	
縱向	2300 公厘/分
橫向	2300 公厘/分
昇降	770 公厘/分
三相交流電動機:	
主傳動用:	
功率	7 瓩
轉速	1445 轉/分
送刀用:	
功率	2.2 瓩
轉速	1440 轉/分
外形尺寸 (長×寬×高)	2100×1740×2240 公厘
機床淨重	約 3200 公斤



VERTICAL MILLING MACHINE

This machine is manufactured after the Soviet Vertical Milling Machine, Model 6H12. The machine is designed for individual or rapid production of parts with end mills, shank milling cutters, angle milling cutters and form cutters. Power feed and rapid travel of the table can be moved in three directions and also reciprocated automatically in longitudinal direction.

Enormous rigidity, large power and high speed of the spindle enable the machine to be operated efficiently in high speed cutting.

The changes of spindle speeds and table feeds are obtained through the gear box and feed box.

The machine provides a regulating mechanism to adjust the clearance between nut and lead screw, so it can be used for down cut milling. For the mechanisms of spindle speeds and table speeds are operated individually so it guarantees the reasonable cutting rate to be applied.

MAIN SPECIFICATIONS

Distance from plain table to face of vertical spindle:	Range of feeds in longitudinal direction, mm/min.	19—950
Minimum, mm.	30	
Maximum, mm.	450	
Distance from vertical guide to the center of table:	Range of feeds in cross direction, mm/min.	19—950
Minimum, mm.	205	
Maximum, mm.	455	
Working surface of table (length × width), mm.	1250 × 320	
Maximum travel of table:	Ratio of feeds (vertical to longitudinal direction)	1/3
Longitudinal (mechanical or manual), mm.	700	
Cross (mechanical or manual), mm.	230—250	
Vertical (mechanical or manual), mm.	400—420	
Distance between T-slots, mm.	70	
Number of spindle speeds	18	
Range of spindle speeds, R.P.M.	30—1500	
Number of feeds of table in longitudinal, cross and vertical directions	18	
	Rapid traverse of table:	
	Longitudinal, mm/min.	2300
	Cross, mm/min.	2300
	Vertical, mm/min.	770
	3-phase A.C. motor.	
	Main motors:	
	Rating, kw.	7
	Speed, R.P.M.	1445
	Feed motor:	
	Rating, kw.	2.2
	Speed, R.P.M.	1440
	Overall dimensions (length × width × height), mm.	2100 × 1740 × 2240
	Net weight, kg.	Approx. 3200

萬 能 銑 床

(仿 蘇 聯 6 H 82 型)

UNIVERSAL MILLING MACHINE

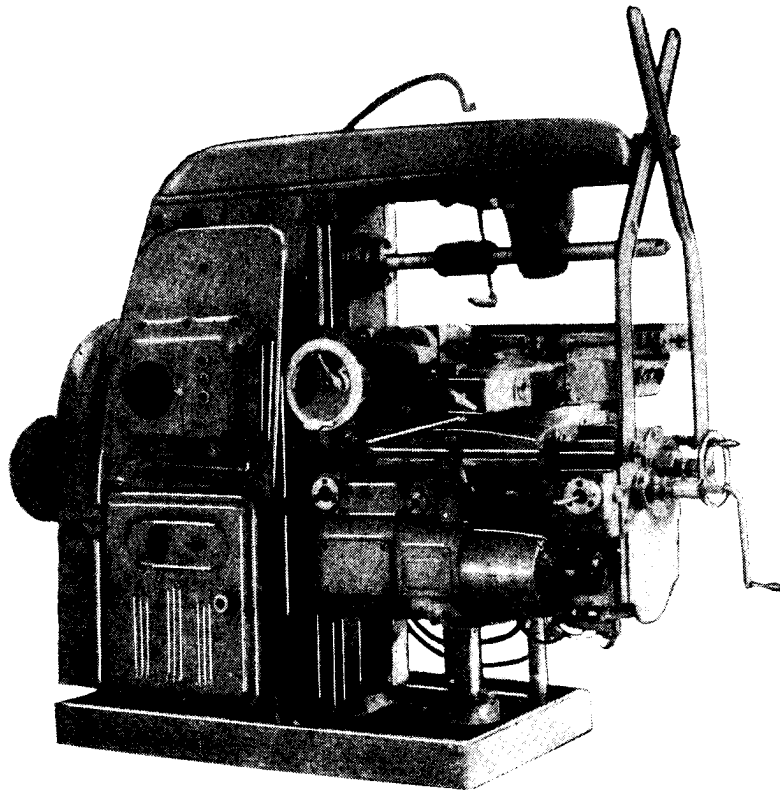
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萬 能 銑 床

25X1

(仿 蘇 聯 6 H 82 型)



本機床係仿蘇聯 6 H 82 型萬能銑床製造。

本機床適用於用各種輓銑刀，圓片銑刀，角度銑刀及成形銑刀銑切各種零件。

機床在使用分度頭時，則可銑切各種正齒的斜齒的柱形齒輪及螺旋線等。

由於機床的足夠的功率，剛性及主軸的轉速較高，所以能合理地利用各種硬質合金銑刀。

主軸轉速及工作台的送刀量由變速箱及送刀箱的選擇機構進行轉換。

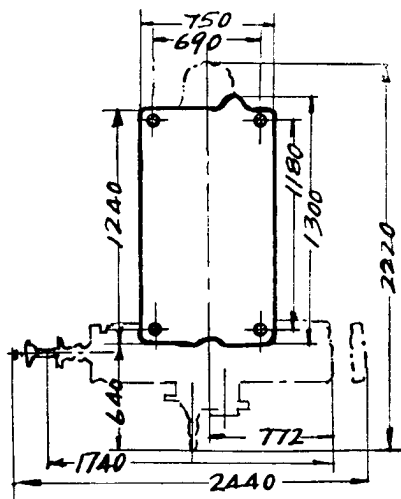
機床的工作台能按不斷的往復循環作自動運動，這樣就保證機床在成批生產中的合理使用。

由於送刀機構具有螺母與絲槓間隙的調整裝置，機床上可進行順銑切。

機床附件有：分度頭及尾座，心軸等。

主 要 規 格

主軸中心線至工作台面的距離：最小	30 公厘
最大	400 公厘
床身垂直導軌至工作台中心的距離：最小	205 公厘
最大	455 公厘
主軸中心線至橫樑的距離	155 公厘
工作台工作面（長×寬）	1250×320 公厘
工作台最大移動距離：縱向（機動及手動）	700 公厘
橫向（機動/手動）	230/250 公厘
昇降（機動/手動）	350/370 公厘
T 形槽間的距離	70 公厘
工作台最大迴轉角度	± 45°
主軸轉速種數	18
主軸轉速範圍	30—1500 轉/分
工作台縱向，橫向及昇降送刀量種數	18
縱向送刀量範圍	19—950 公厘/分
橫向送刀量範圍	19—950 公厘/分
昇降送刀量與縱向送刀量之比	1/3
工作台快速移動：縱向	2300 公厘/分
橫向	2300 公厘/分
昇降	770 公厘/分
三相交流電動機：	
主傳動用：功率	7 瓩
轉速	1445 轉/分
送刀用：功率	2.8 瓩
轉速	1440 轉/分
外形尺寸（長×寬×高）	2100×1740×2000 公厘
機床淨重	約 3100 公斤



UNIVERSAL MILLING MACHINE

This machine is manufactured after the Soviet Universal Milling Machine Model 6H82.

The machine is designed for milling parts with cylindrical, disk, angle cutters as well as form cutters.

Cylindrical spur gear, helical gear and helix can be performed on this machine when the index head is employed.

Enormous rigidity, large power and high spindle speed as the machine possesses, so the carbide tools can be applied reasonably. The change of spindle speeds and table feeds are obtained through the selecting mechanism of gear box and feed box.

As the movement of the table can be reciprocated automatically, so it gurantees the machine to be employed reasonably in mass production. The feed mechanism provides a device to adjust the clearance between nut and lead screw, therefore cut down milling can be performed on this machine.

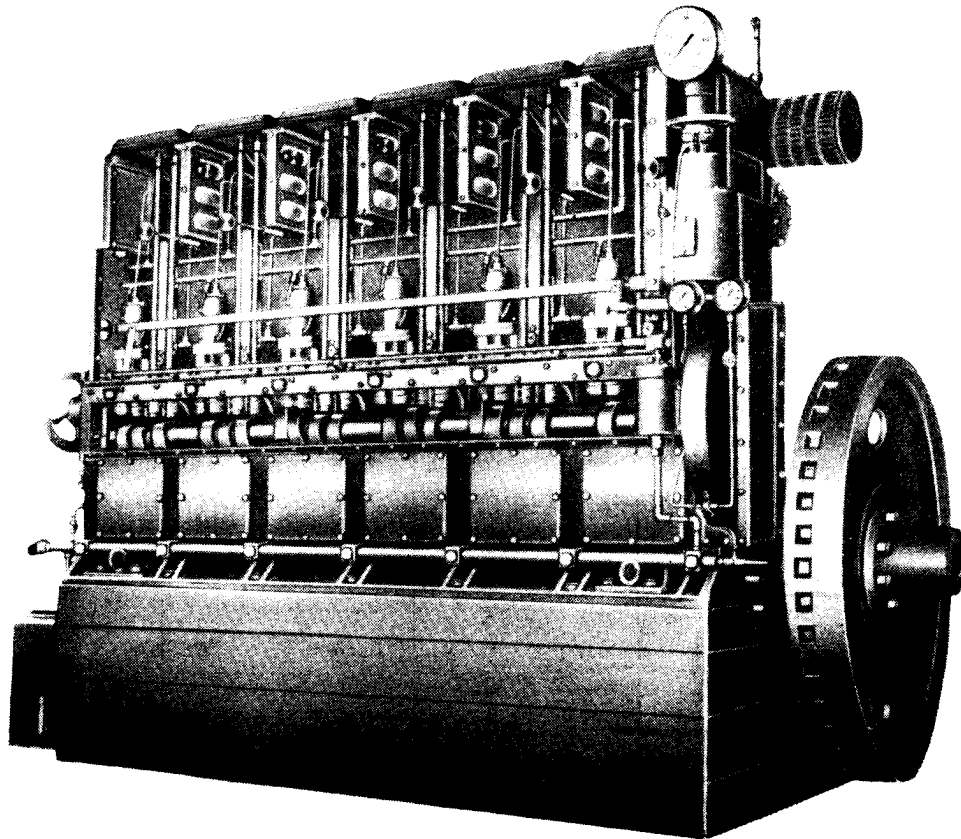
Attachments of the machine:- index head, tail stock, mandrel, etc..

MAIN SPECIFICATIONS

Distance from center line of spindle to top of table:	
Minimum, mm.	30
Maximum, mm.	400
Distance from vertical guide to center of table:	
Minimum, mm.	205
Maximum, mm.	455
Distance from center line of spindle to overarm, mm.	155
Table working surface (length \times width), mm.	1250 \times 320
Maximum travel of table:	
Longitudinal (mechanical or manual), mm.	700
Cross (mechanical or manual), mm.	230/250
Vertical (mechanical or manual), mm.	350/370
Distance between T - Slots, mm.	70
Maximum swivel angle of table	$\pm 45^\circ$
Number of spindle speeds	18
Range of spindle speeds, R.P.M.	30-1500
Number of feeds of table in longitudinal, cross and vertical direction	18
Range of feeds in longitudinal direction, M/min.	19-950
Range of feeds in cross direction, M/min.	19-950
Ratio of feeds of vertical to longitudinal direction	1/3
Rapid cross of table:	
Longitudinal, mm/min.	2300
Cross, mm/min.	2300
Vertical, mm/min.	770
3-phase A.C. motors:-	
Main motor:	
Rating, kw.	7
Speed, R.P.M.	1445
Feed motor:	
Rating, kw.	2.8
Speed, R.P.M.	1440
Overall dimensions (length \times width \times height), mm.	2100 \times 1740 \times 2000
Net weight, kg.	Approx. 3100

柴 油 機

(200 及 300 馬 力)



本機為立式四衝程柴油機，有六缸及四缸兩種（六缸者為 300 馬力，四缸者為 200 馬力）。可作發電、輪船、火車及工礦動力之用。

射油泵係用斜槽齒條控制式。噴油嘴為多孔封閉式。

曲軸可從機身前面裝入。進出汽門、推桿、凸輪等活動部份，皆封閉於箱內，故外表美觀而且安全。各汽缸有單獨之油泵，在不停車情況下，可停止任何一缸。調速器用凸輪軸傳動，能自動調整轉速，其調速範圍為 $\pm 4\%$ ，當轉速超過預定速度時能自動停車。齒輪油泵供給各軸承部份潤滑油。在油壓低於一定壓力時，經過油泵調節閥，發動機即自動停車，因此安全可靠。

起動方法，用壓縮空氣自動開車。隨機附有空氣壓縮機及儲氣罐。

按照訂貨用戶的意見，本機的動力傳出可直接聯接或用皮帶輪傳動。如用皮帶輪傳動，則裝有外伸軸及皮帶輪。

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主 要 規 格

項 目	單 位	馬 力	
		200	300
汽缸數		4	6
汽缸直徑	公厘	250	250
活塞行程	公厘	300	300
壓縮比		15 : 1	15 : 1
轉速	轉/分	600	600
冷却方法		水冷	水冷
潤滑方法		壓力式	壓力式
起動方法		壓縮空氣	壓縮空氣
發火順序		1—3—4—2	1—4—2—6—3—5
燃料消耗量	公斤/馬力-小時	0.185	0.185
冷却水最大消耗量	公升/馬力-小時	25	25
飛輪直徑	公厘	1100	1100
外形尺寸(長×寬×高)	公厘	2680×1120×1975	3420×1120×1975
本機淨重	公斤	5000	8000

200 AND 300 H.P. DIESEL ENGINE

This kind of engine is a 4 cycle vertical type built in 4 and 6 cylinders rated of 200 and 300 horsepower respectively. The engine is applicable to power generation, marine service, locomotive and general industrial service.

The fuel system is operated with independent injection pumps, featured with rack controlled plungers and multi-hole closed type injection nozzles.

The crankshaft can be installed or taken out from the front engine frame, all of the moving parts-valves, pushrods and camshaft are built in one case, and compactively, resulting a neat appearance and safety.

The governor is driven by the camshaft, and regulate the speed within $\pm 4\%$ of the rated speed automotively. If in emergency cases, the speed exceed the predetermined limit, the engine will be tripped and brought to stop automatically.

All bearings are lubricated with a gear type pressure oil pump. If the oil pressure drop too low, through a regulating valve and safety device, the engine will be stopped automatically, thereby preventing any possible damage to the engine.

The engine is started with compressed air, an air compressor and a storage tank are provided.

At the purchaser's option, power take off from the engine can be either through direct coupling or through the use of belt pulleys. For the later arrangement, the engine will be provided with a belt pully and also an extension shaft.

MAIN SPECIFICATIONS

Item	Unit	200H.P.	300H.P.
Number of cylinders		4	6
Dia. of cylinder	m.m.	250	250
Stroke	m.m.	300	300
Compression ratio		15:1	15:1
Speed	R.P.M.	600	600
Cooling method		water	water
Lubricating system		pressure	pressure
Starting system		air	air
Firing order		1-3-4-2	1-4-2-6-3-5
Specific fuel consumption	kg./H.P.-hr.	0.185	0.185
Max. cooling water consumption	L./H.P.-hr.	25	25
Dia. of fly wheel	m.m.	1100	1100
Overall dimensions	m.m.	2680×1120×1975	3420×1120×1975
Net weight	kg.	5000	8000

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汽 油 機

(4 馬 力，仿 民 主 德 國 EL 150 型)

4 H.P.

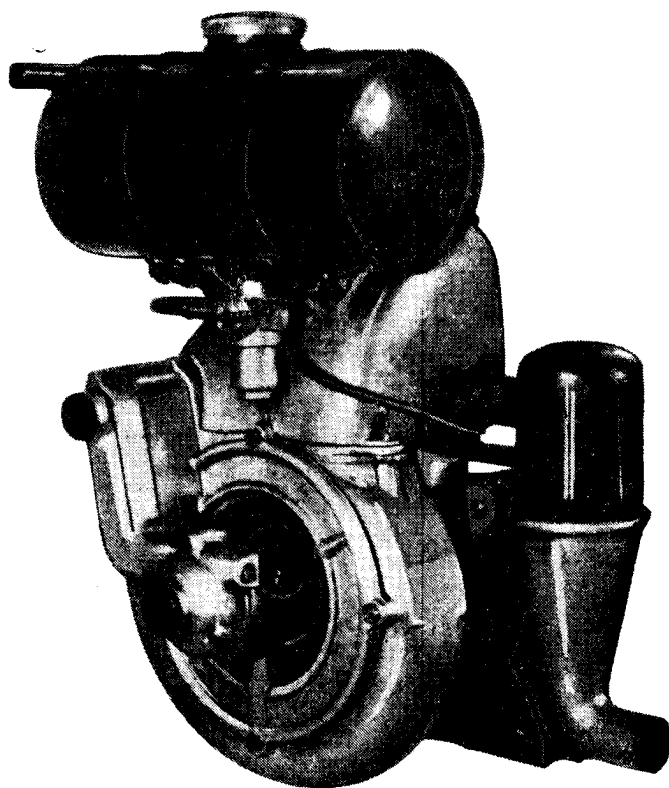
PORTABLE GASOLINE ENGINE

中 華 人 民 共 和 國
中 央 人 民 政 府 第 一 機 械 工 業 部

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CENTRAL PEOPLE'S GOVERNMENT, PEOPLE'S REPUBLIC OF CHINA.

汽 油 機

(4 馬力、仿民主德國 EL 150 型)



本機係仿民主德國 EL 150 型汽油機製造，為立式單缸二衝程循環。曲軸箱、飛輪及活塞等零件均用輕金屬鑄造，汽缸用密烘鑄鐵鑄造。本機無氣門，進氣及排氣係由活塞上下移動使汽缸壁之孔道開閉而控制之。

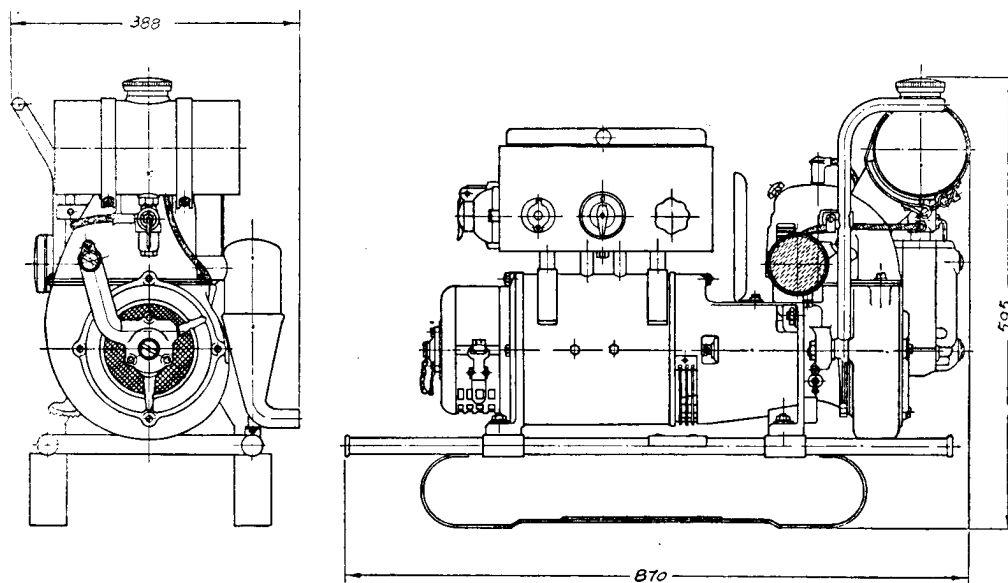
本機為氣冷式。裝有離心調速器，調速靈敏度為 $\pm 3\%$ ，在任何負荷情況下，其轉速均自動保持 3000 轉/分。動力傳出為直接連接式。

本機構造簡單，便於操作及維護，適用於小型發電，鼓風，打水及其他動力之用。

主 要 規 格

馬力

額定馬力	3.2
最大馬力	4.0
汽缸數	1
汽缸直徑	56 公厘
活塞行程	58 公厘
活塞排氣量	0.143 公升
壓縮比	6.4:1
轉速	3000 轉/分
冷卻方法	氣冷
起動方法	手搖
發火方法	磁電機
汽油箱容量	3.5 公升
燃料消耗量	在全負荷時, 2 公升/時
外形尺寸 (長×寬×高)	870×388×595 公厘
本機淨重	20 公斤



4 H.P. PORTABLE GASOLINE ENGINE

This engine is manufactured after model EL-150 of the German Democratic Republic. It is a vertical single-cylinder, two-stroke cycle engine. The crank case and piston are cast from light alloys and the cylinder block from Meehanite iron. No valve is used, the intake and exhaust are effected through ports on the cylinder wall and controlled by the piston movement.

The engine is air cooled under all load conditions, the speed is automatically regulated at around 3000 R.P.M. with a centrifugal type governor, capable of holding the speed fluctuation within $\pm 3\%$.

Characterized with simplicity of construction, ease of operation and maintenance, the engine is well suited for driving portable electrical generators, air blowers, water pumps and other general services.

MAIN SPECIFICATIONS

Horsepower ratings:

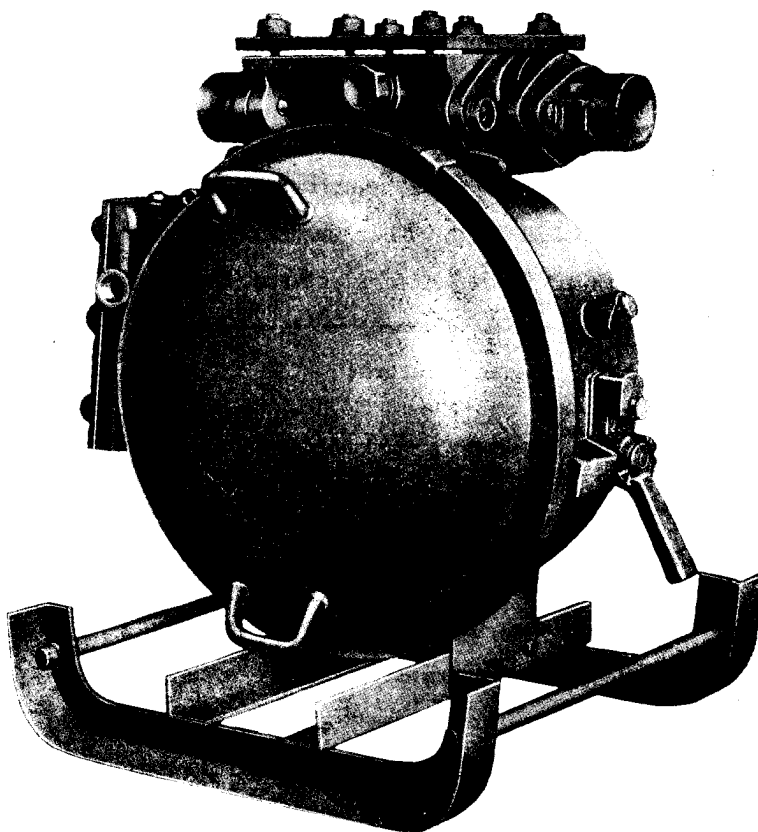
Rated, H.P.	3.2
Maximum, H.P.	4.0
Number of cylinder	1
Bore, mm.	56
Stroke, mm.	58
Piston displacement, litre	0.143
Compression ratio	6.4:1
Speed, R.P.M.	3000
Cooling method	air
Starting method	hand
Ignition method	magneto
Capacity of fuel tank, litre	3.5
Fuel consumption at full load, litre/hr.	2
Overall dimensions, mm.	870 × 388 × 595
Net weight, kg.	20

礦用防爆磁力起動器

(仿蘇聯 ПМБ 系列)

本系列礦用防爆磁力起動器，係仿照蘇聯 ПМБ 系列製造，用以控制礦下三相鼠籠型感應電動機。

本系列產品可用為遠距離控制；有失壓保護；用熔斷器短路保護，或用最大熱繼電器同時作短路及過載保護。



型 式	額 定 電 流 (安)	在下列電壓下電動機 的最大功率 (瓩)		約 重 (公 斤)
		220 (伏)	380 (伏)	
ПМБ-1344	80	20	30	125
ПМБ-1355	120	35	55	140
ПМБ-1365	225	65	110	165

起動器的防爆外殼內主要裝有三極交流接觸器，可逆隔離開關，管式熔斷器或熱繼電器，起動按鈕，及降壓變壓器等。

起動器的外殼有“開”“關”手柄，還有“起動”及“停止”按鈕。

起動器裝在滑撬上傾斜至 15° 時尚能運用，但傾斜至 30° 時起動器就傾倒。

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EXPLOSION-PROOF MAGNETIC STARTER FOR MINING

This explosion-proof magnetic starter is manufactured after the Soviet Model ПМБ. It is made for controlling the three phase induction motor of squirrel cage type in the mine.

Starter of this series can be used for remote-control apparatus. It has safety device for voltage drop. Fuse or thermal relay is applied for short-circuit and over load protection. Under-voltage release is also provided.

Type	Normal current (amp.)	Max. capacity of motor (kw.)		Approximate weight (kg.)
		220 v.	380 v.	
ПМБ-1344	80	20	30	125
ПМБ-1355	120	35	55	140
ПМБ-1365	225	65	110	165

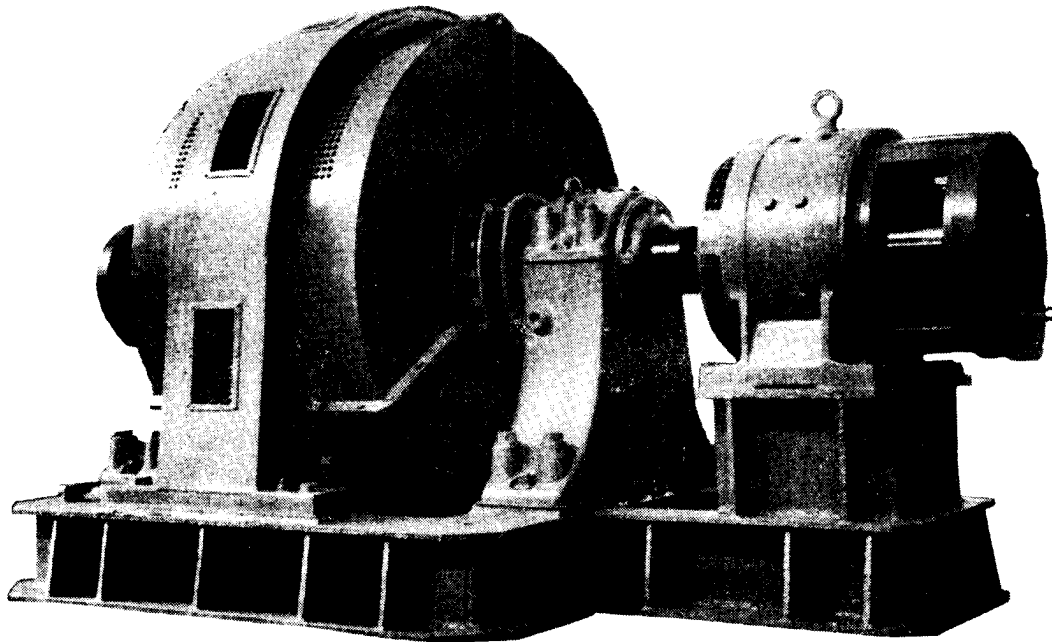
A.C. contactor, reversible switch, cartridge fuse or thermal relay, starting push button and step-down transformer are assembled in the explosion-proof envelope of the starter. Outside the envelope "open-close" handle and "start-stop" push button.

The starter fixed on the sledge can be operated at inclinations less than 15 degrees; it falls at an inclination of 30 degrees.

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三 相 交 流 同 期 電 機

(仿 蘇 聯 MC-320 系 列)



本系列同期電機係仿蘇聯 MC-320 系列製造，分為發電機及電動機二類。

發電機主要與柴油機及水力透平耦合使用；電動機主要用於驅動常速的空氣壓縮機，送風機，水泵及交流電動發電機組等。標準產品為臥式裝於二個座式軸承上。

發電機功率範圍 136~3840 瓩

電 壓 3150 及 6300 伏

電動機功率範圍 125~3850 瓩

電 壓 3000 及 6000 伏

同期轉速 1000, 750, 600, 500, 375, 250 及 187 轉/分

週率 50 週/秒

勵磁機採用仿蘇 ПИИ 系列直流電機，勵磁機電壓由聯接在磁場分繞線中的磁場變阻器調整之。勵磁機轉子與發電機轉軸，以橡皮絕緣之聯軸器連接。

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THREE-PHASE SYNCHRONOUS MACHINES

This series of synchronous machines is manufactured after the Soviet Model MC-320. It consists of generators and motors.

The generators are mainly used in connection with diesel engine or water turbines, while the motors are mainly used for driving constant speed air compressors, ventilators, water pumps, and A.C. motor-generator sets. The standard products of this series are of horizontal type, supported by two pedestal bearings.

Generator:

Power rating, kw. 136—3840

Voltage, V. 3150—6300

Motor:

Power rating, kw. 125—3850

Voltage, V. 3000—3850

Synchronous speed, R.P.M. 1000, 750, 600, 500, 375, 250 and 187

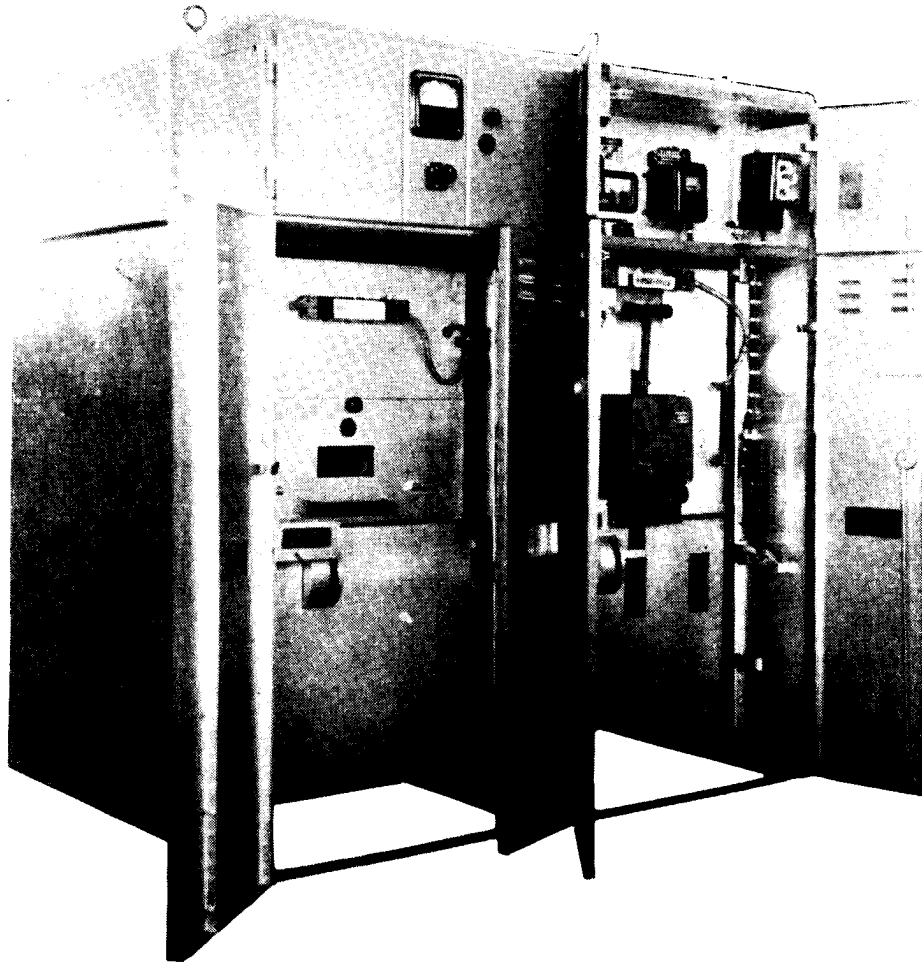
Frequency c/s. 50

Exciter of the machine is a D.C. generator of Soviet Model IIH series, its voltage is adjusted by a field rheostat inserted in the shunt field winding. The exciter is connected to the machine's shaft by a coupling with rubber insulation.

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高 壓 成 套 配 電 裝 置

(仿 蘇 聯 KO 型)



此型成套高壓配電裝置，係仿蘇聯 KO 型製造，廣泛適用於發電廠及變電站。

本型產品用於單母線系統，額定電壓 3, 6 及 10 仟伏，額定最大電流為 900 安。斷流容量決定於仿蘇 BMΓ-133 型貧油斷路器本身的斷流容量的數值。

本型成套裝置主要由下列兩部份組成：

1. 固定部份——鐵殼 鐵殼是用鐵板鐸成分為：裝母線、電流互感器、儀表、繼電器、和手車的四個小室。

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2. 活動部份——手車 手車是用角鐵鑄成，手車上裝有仿蘇 BMΓ-133 型貧油斷路器；仿蘇 ПС-10 型電動開關或仿蘇 ПРБА 型手動操作機構；或裝有仿蘇 HTMI 型或仿蘇 HOM 型電壓互感器。

主 要 規 格

外型尺寸：

電動式：	高	2100 公厘
	闊	1000 公厘
	深	1500 公厘
手動式：	高	2100 公厘
	闊	1000 公厘
	深	1600 公厘

HIGH VOLTAGE SWITCH BOARD

This high voltage switch board is manufactured after the Soviet Model KO. It is widely used in power plants and industrial substations. It can be used in single bus system. Rated voltage 3, 6 and 10 kv; rated maximum current 900 amp; interrupting capacity being determined by the size of type BMΓ-133 (Soviet type) oil circuit breaker itself.

This switchboard consists mainly of two parts:

1. A stationary case which is made of soldered iron plates. It is subdivided into four compartments: bus current transformer, meters and relays, and breaker.
2. A moving truck is made of angle-iron plates. It carries oil circuit breaker BMΓ-133 (Soviet type); electric operating mechanism ПС-10 (Soviet type) or hand operating mechanism ПРБА (Soviet type); or voltage transformer type HTMI or HOM (Soviet type).

MAIN SPECIFICATIONS

Overall size:

Electrically operated:

Height, mm.	2100
Width, mm.	1000
Depth, mm.	1500

Hand operated:

Height, mm.	2100
Width, mm.	1000
Depth, mm.	1600

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WATERWHEEL-GENERATOR SET

Complete set of water power generator equipment was not ever made in old China. Since 1949 of New China, the manufacture and installation of hydroelectric machines have been speedily developed.

In 1953 sets of waterwheel-generators of 6000 kw. capacity (water head 120 M, syn. speed 428 R.P.M.) were produced, and now 10000 kw. sets (water head 36 M, syn. speed 187.5 R.P.M.) are under construction.

Types, ratings, and schedule of production are as follows:

WATER TURBINES

Water head (M.)	Types	Ratings (kw)	Production schedule
below 20	Propeller (Kaplan)	up to 1000	1956-1957
15-200	Radial-axial flow (Francis)	up to 1000	1952-1958
100-400	Impulse (Pelton)	up to 1000	1953-1957

WATERWHEEL GENERATORS

(Made after Soviet type Model BFCB series)

Syn. speed R.P.M.	Ratings, kva	Production schedule
80-100	7500	1956
125	up to 15000	1956-1957
150-167.5	up to 22500	1955-1957
187	up to 31250	1955-1957
214-500	up to 45000	1952-1958
600-750	up to 15000	1953-1957

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水 輪 發 電 機 組

全套水輪發電機組在中國過去未曾製造過；但 1949 年起，新中國的水力發電設備的製造及使用發展很快。1953 年已經生產的有 6000 瓩（水頭 120 公尺，轉速 428 轉/分）。1954 年製造的有 10000 瓩（水頭 36 公尺，轉速 187 轉/分）。

茲將水力透平及水輪發電機的可能承製範圍及供應期介紹於後：

水 力 透 平

水 頭 (公尺)	型 式	出 力 (瓩)	供 應 期 (年)
20 以下	混式 (卡布蘭式)	15000 以下	1956—1957
15—200	混軸流式 (法蘭西式)	36000 以下	1952—1958
100—400	徑式 (柏利頓式)	10000 以下	1953—1957

水 輪 發 電 機

(參照聯 BFC, CB 系列產品設計製造)

同 期 轉 速 (轉)	容 量 範 圍 (仟安伏)	供 應 期 (年)
88—100	7500	1956
125	15000 以下	1956—1957
150—167	22500 以下	1955—1957
187	31250 以下	1955—1957
214—500	45000 以下	1952—1958
600—750	15000 以下	1953—1957

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汽 油 機

(4 馬 力，仿 民 主 德 國 EL 150 型)

4 H.P.

PORTABLE GASOLINE ENGINE

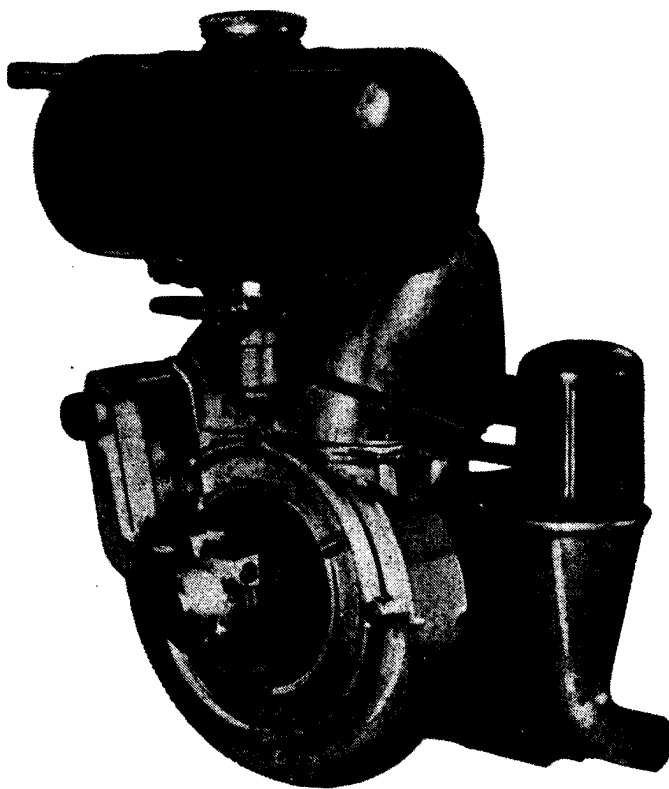
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汽 油 機

25X1

(4 馬力、仿民主德國 EL 150 型)



本機係仿民主德國 EL 150 型汽油機製造，為立式單缸二衝程循環。曲軸箱、飛輪及活塞等零件均用輕金屬鑄造，汽缸用密烘鑄鐵鑄造。本機無氣門，進氣及排氣係由活塞上下移動使汽缸壁之孔道開閉而控制之。

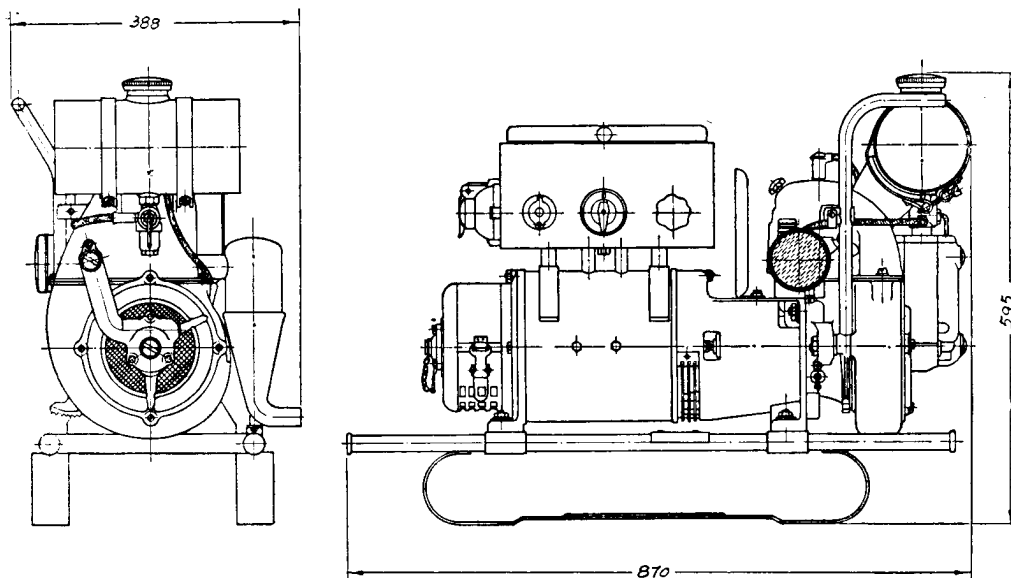
本機為氣冷式。裝有離心調速器，調速靈敏度為 $\pm 3\%$ ，在任何負荷情況下，其轉速均自動保持 3000 轉/分。動力傳出為直接連接式。

本機構造簡單，便於操作及維護，適用於小型發電，鼓風，打水及其他動力之用。

主 要 規 格

馬力

額定馬力	3.2
最大馬力	4.0
汽缸數	1
汽缸直徑	56 公厘
活塞行程	58 公厘
活塞排氣量	0.143 公升
壓縮比	6.4:1
轉速	3000 轉/分
冷卻方法	氣冷
起動方法	手搖
發火方法	磁電機
汽油箱容量	3.5 公升
燃料消耗量	在全負荷時, 2 公升/時
外形尺寸 (長×寬×高)	870×388×595 公厘
本機淨重	20 公斤



4 H.P. PORTABLE GASOLINE ENGINE

This engine is manufactured after model EL-150 of the German Democratic Republic. It is a vertical single-cylinder, two-stroke cycle engine. The crank case and piston are cast from light alloys and the cylinder block from Meehanite iron. No valve is used, the intake and exhaust are effected through ports on the cylinder wall and controlled by the piston movement.

The engine is air cooled under all load conditions, the speed is automatically regulated at around 3000 R.P.M. with a centrifugal type governor, capable of holding the speed fluctuation within $\pm 3\%$.

Characterized with simplicity of construction, ease of operation and maintenance, the engine is well suited for driving portable electrical generators, air blowers, water pumps and other general services.

MAIN SPECIFICATIONS

Horsepower ratings:

Rated, H.P.	3.2
Maximum, H.P.	4.0
Number of cylinder	1
Bore, mm.	56
Stroke, mm.	58
Piston displacement, litre	0.143
Compression ratio	6.4:1
Speed, R.P.M.	3000
Cooling method	air
Starting method	hand
Ignition method	magneto
Capacity of fuel tank, litre	3.5
Fuel consumption at full load, litre/hr.	2
Overall dimensions, mm.	870 × 388 × 595
Net weight, kg.	20

汽 油 機

(15 馬 力)

15 H.P.

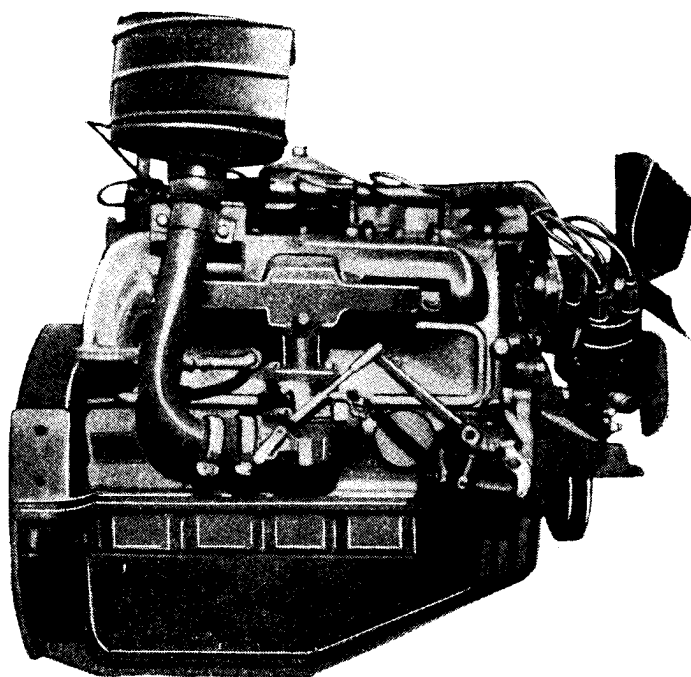
GASOLINE ENGINE

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汽 油 機

(15 馬 力)

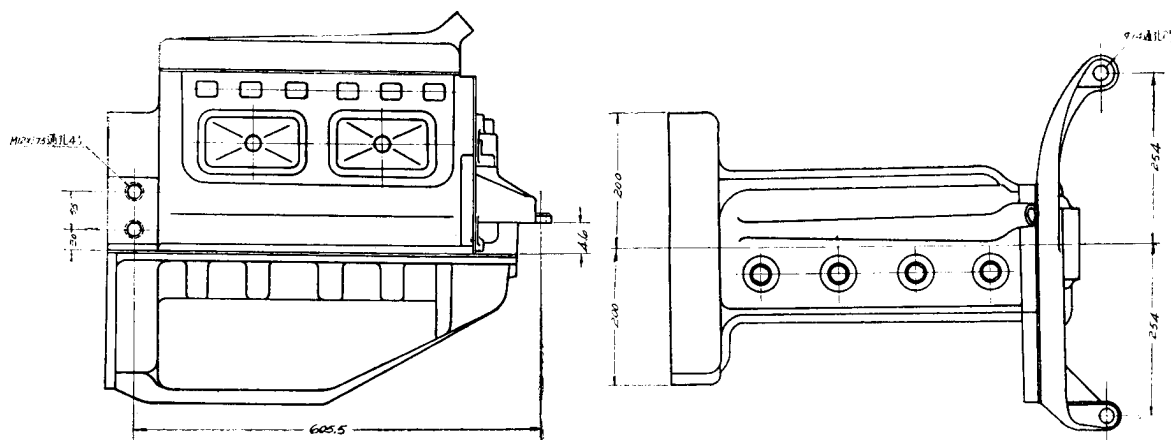


本機為四衝程，立式，水冷汽油機。適用於發電、打水以及其他小型工業的動力供應。

有離心式調速器裝置，調速效能為 $\pm 2\%$ 。最大扭力矩為11.5公斤——公尺。
排氣閥採用特種合金鋼製造，能耐高熱。本機結構簡單，便於檢修和移動。

主 要 規 格

額定馬力 (在每分鐘 1500 轉時)	15
汽缸數	4
汽缸直徑	81 公厘
活塞行程	96 公厘
活塞排氣量	1.978 公升
壓縮比	6:1
轉速	1500 轉/分
冷却方法	水冷
潤滑方法	壓力
起動方法	用直流電起動機起動
發火順序	1—2—4—3
點火方法	電瓶，生力
火星塞直徑	14 公厘
燃料消耗量 (汽油比重為 0.63)	0.453 公斤/馬力-小時
潤滑油消耗量	0.055 公斤/時
外形尺寸 (長×寬×高)	850×552×760 (連水箱在內高 910，長 875) 公厘
本機淨重	180 公斤



15 H.P. GASOLINE ENGINE

The gasoline engine is a four-stroke, vertical, water-cooled type suitable for driving electric generators, water-pumps and other small industrial units.

The engine speed is centrifugally governed, the variation of revolution being $\pm 2\%$. Maximum torque is 11.5 kg-meter. The exhaust valve, made of special alloy steel, can resist high temperature. The structure of the engine is simple, easy for maintenance.

MAIN SPECIFICATIONS

Rated horsepower (at 1500 R.P.M.)	15
No. of cylinders	4
Bore, mm.	81
Stroke, mm.	96
Piston displacement, litres.	1.978
Compression ratio . . . ,	6:1
Speed, R.P.M.	1500
Cooling system	water cooled
Lubricating system	forced
Starting	by D. C. starter
Firing order	1-2-4-3
Ignition	battery and coil
Diameter of spark plug, mm.	14
Fuel consumption (specific gravity of gasoline being 0.63), kg/H.P.-hr. . . .	0.453
Lubricating oil consumption, kg/hr.	0.055
Overall dimensions, mm.	850 × 552 × 760 (including radiator height 9.10 mm. length 875 mm)
Net weight, kg.	180

蓄 電 池 搬 運 車

(2 公 噸)

2 TONS

ELECTRIC BATTERY TRUCK

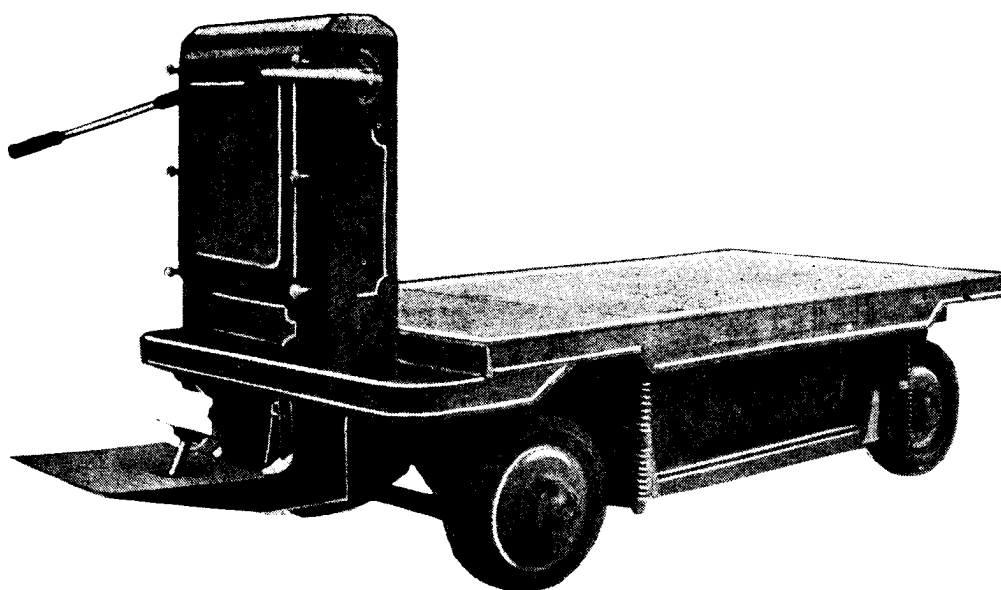
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蓄電池搬運車

25X1

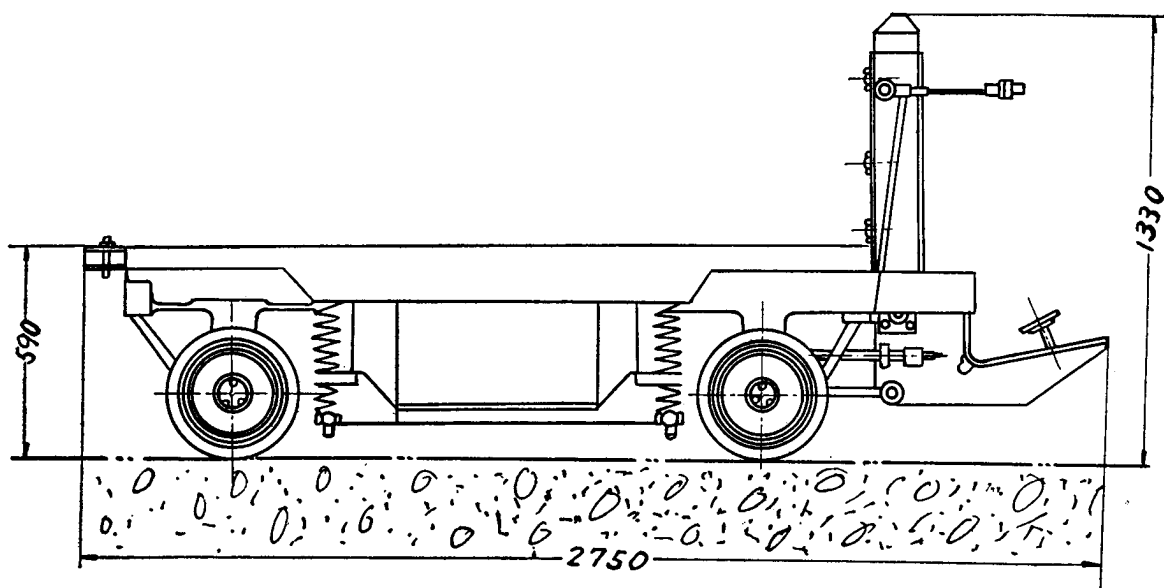
(2 公噸)



本車係按照蘇聯式樣設計製造。適於基建工地及輕重工業工廠車間運送材料之用。本車係由直流電動機帶動，並裝有蓄電池供給電源。在車的後部設置有快慢控制開關、轉向手把、電喇叭及腳閘等設備。

主 要 規 格

載重量 2000 公斤
 載貨面積(寬×長) 1140×2080 公厘
 行車速度(分三檔) 75;120;180 公尺/分
 載物面至地面高度 590 公厘
 直流電動機規格:
 功率 2.8; 1.5; 0.7 瓩
 轉速 750; 1200; 1800 轉/分
 電壓 32 伏
 電流 35;75;44 安培
 蓄電池規格:
 型號 ЭТТ—250 型
 個數 16 個(直列)
 電壓 2 伏
 容量:
 5 小時放電率 250 安培-小時
 10 小時放電率 280 安培-小時
 搬運車外形尺寸(長×寬×高) 2750×1140×1330 公厘
 搬運車自重(帶蓄電池) 1500 公斤



2 TONS ELECTRIC BATTERY TRUCK

The truck is designed after the Soviet Union type. It is suitable for material transportation in engineering construction yards and workshops of heavy or light industry works.

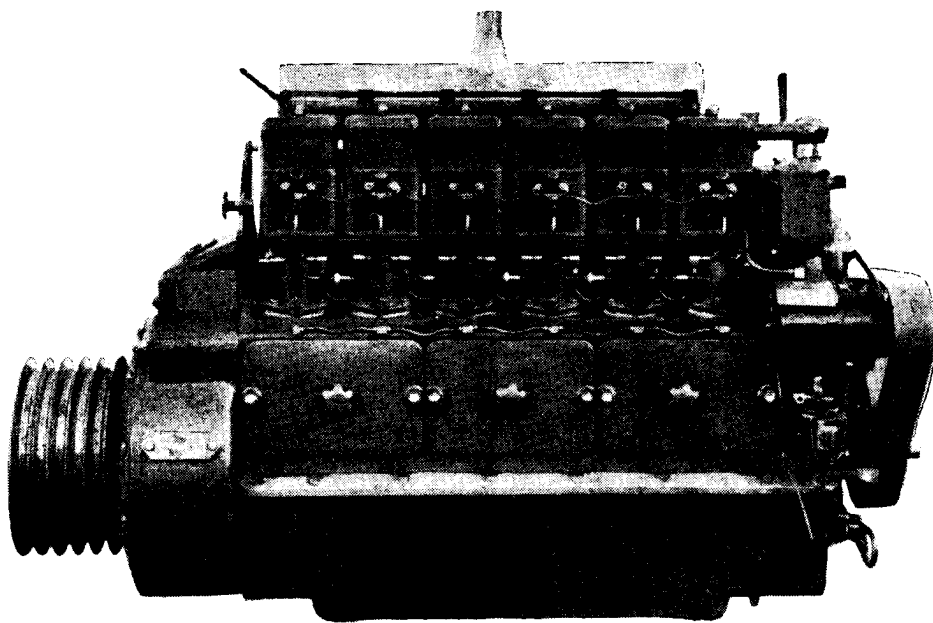
The truck is driven by battery-operated direct current electric motor. The rear part is equipped with speed controller, steering handle, electric horn and foot brake etc.

MAIN SPECIFICATIONS

Load capacity, kg.	2000
Loading area (width \times length), mm.	1140 \times 2080
Travelling speeds (three stage), M/min	75; 120; 180
Height from ground to platform, mm.	590
D. C. motor:	
Power, kw.	2.8; 1.5; 0.7
Speeds, R.P.M.	750; 1200; 1800
Voltage, V.	32
Current, amp.	35; 75; 44
Battery:	
Type	ЭТТ-250
Number	16 (in series)
Voltage, V.	2
Capacity:	
Discharge in 5 hours, amp-hr.	250
Discharge in 10 hours, amp-hr	280
Overall dimensions (length \times width \times height), mm.	2750 \times 1140 \times 1330
Weight (with battery), kg.	1500

柴 油 機

(20, 40 及 60 馬 力)



本機為立式四衝程柴油機，有二缸、四缸、六缸等三種（二缸為 20 馬力，四缸為 40 馬力，六缸為 60 馬力）。適用於發電、抽水、農產品加工及工礦、船舶等。

射油泵為斜槽齒條控制式。噴油嘴為封閉軸針式。

起動方法：二缸者可用手搖，並附有紙捻塞。四缸及六缸者用 12 伏特直流電動機帶動。用作船舶動力時，備有行星齒輪式倒順離合器及減速齒輪箱（減速比為 1.5:1）。

動力傳出方法可直接聯接，亦可由皮帶輪傳動。

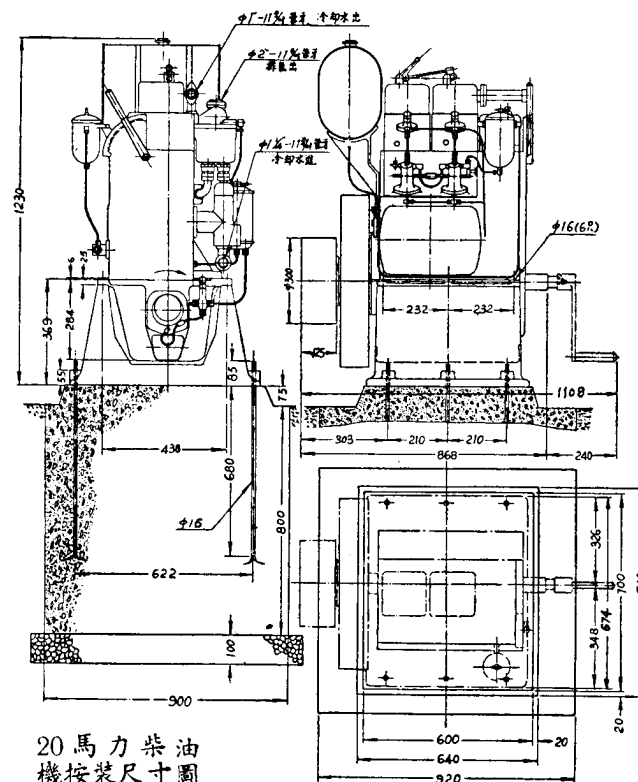
調速率在每分鐘 1200 轉時為 $\pm 2\%$ ，運轉平穩。

本機可作移動式或固定式之用。當固定於地基時，另備有鑄鐵底架，其重量約 80 公斤。

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主 要 規 格

項 目	單 位	馬 力		
		20	40	60
汽缸數		2	4	6
汽缸直徑	公厘	110	110	110
活塞行程	公厘	150	150	150
壓縮比		16.8 : 1	16.8 : 1	16.8 : 1
轉速	轉/分	1200	1200	1200
冷卻方法		水冷	水冷	水冷
潤滑方法		壓力式	壓力式	壓力式
起動方法		手搖	電動式	電動式
燃料消耗量	公斤/馬力-小時	0.210	0.210	0.210
皮帶輪(直徑×寬)	公厘	300×125	400×192	400×192
外形尺寸(長×寬×高)	公厘	1108×674 ×1230	1753×713 ×1222	2093×713 ×1222
本機淨重	公斤	680	1100	1360

20 馬力柴油
機按裝尺寸圖

20, 40 AND 60 H.P. DIESEL ENGINE

This model is four cycle vertical type engine, manufactured in 2, 4, and 6 cylinders, rated respectively at 20, 40 and 60 H.P. These engines are applicable to power generation, water pumping, agricultural, industrial and marine services.

The fuel system consists of plunger type fuel injection pump with bevel-edged slots for metering the fuel quantity and controlled by rack movement. The injection nozzles are of the pintle type.

For starting, the 2-cylinder units can be hand-cranked, with heating plugs provided in the turbulence chamber for facilitating starting in cold weathers. The 4 and 6 cylinder units are provided with 12v. electric starting motors. For marine service, the engine are supplied with planet-type gear-reverse and reduction units (with gear ratio of 1.5:1.).

The power take-off can be either through direct coupling or through a belt pully. Speed of the engine is governed at 1200 R.P.M., fluctuating within $\pm 2\%$.

For stationary services, these engines will be provided with cast iron bases weighing 80 kgs. approximately.

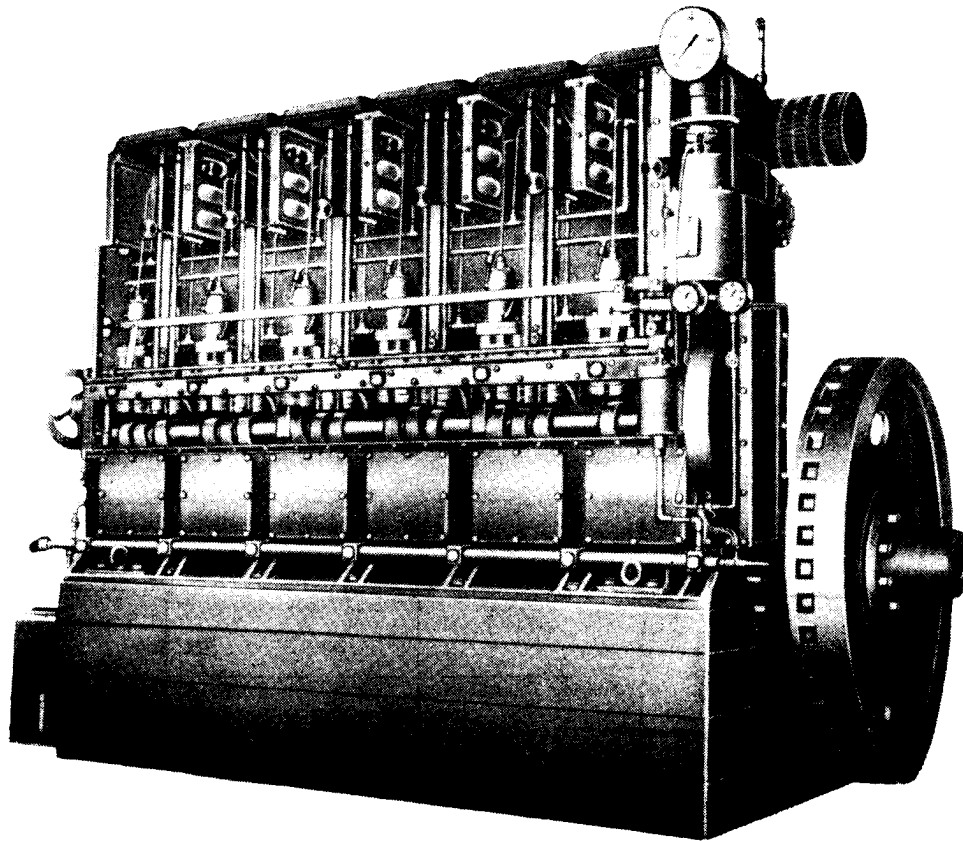
MAIN SPECIFICATIONS

Item	Unit	20 H.P.	40 H.P.	60 H.P.
Number of cylinders		2	4	6
Bore	mm	110	110	110
Stroke	mm	150	150	150
Compression ratio		16.8:1	16.8:1	16.8:1
Speeds	R.P.M.	1200	1200	1200
Cooling method		water	water	water
Lubrication system		pressure	pressure	pressure
Starting method		hand	electric	electric
Specific fuel consumption	kg./H.P.-Hr.	0.21	0.21	0.21
Pulley size (Dia.×width)	mm	300×125	400×192	400×192
Overall dimensions	mm	1108×674×1230	1753×713×1222	2093×713×1222
Net weight	kg.	680	1100	1360

THE FIRST MINISTRY OF MACHINE BUILDING INDUSTRY,
CENTRAL PEOPLE'S GOVERNMENT, PEOPLE'S REPUBLIC OF CHINA.

柴 油 機

(200 及 300 馬 力)



本機為立式四衝程柴油機，有六缸及四缸兩種（六缸者為 300 馬力，四缸者為 200 馬力）。可作發電、輪船、火車及工礦動力之用。

射油泵係用斜槽齒條控制式。噴油嘴為多孔封閉式。

曲軸可從機身前面裝入。進出汽門、推桿、凸輪等活動部份，皆封閉於箱內，故外表美觀而且安全。各汽缸有單獨之油泵，在不停車情況下，可停止任何一缸。調速器用凸輪軸傳動，能自動調整轉速，其調速範圍為 $\pm 4\%$ ，當轉速超過預定速度時能自動停車。齒輪油泵供給各軸承部份潤滑油。在油壓低於一定壓力時，經過油泵調節閥，發動機即自動停車，因此安全可靠。

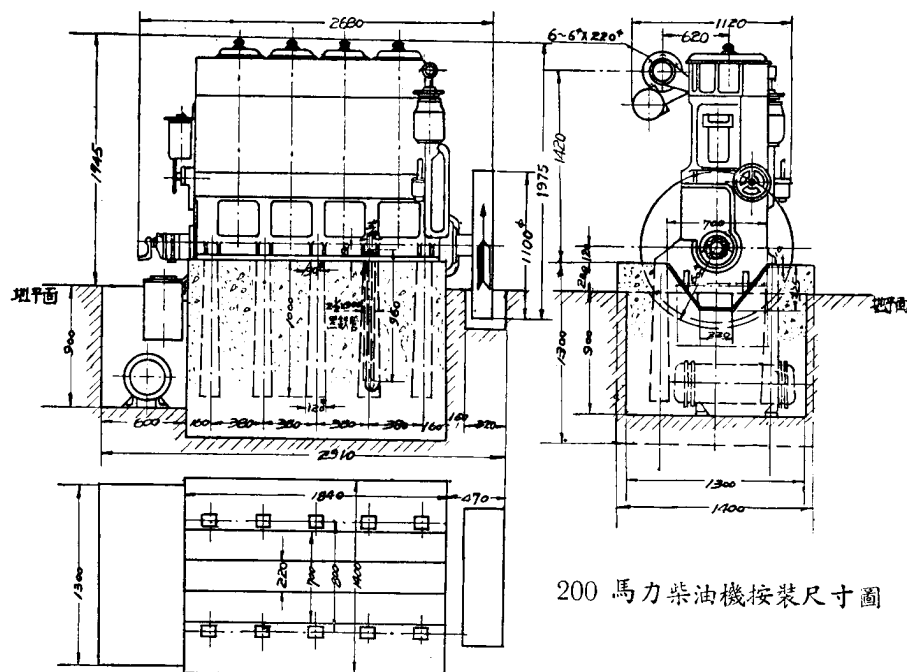
起動方法，用壓縮空氣自動開車。隨機附有空氣壓縮機及儲氣罐。

按照訂貨用戶的意見，本機的動力傳出可直接聯接或用皮帶輪傳動。如用皮帶輪傳動，則裝有外伸軸及皮帶輪。

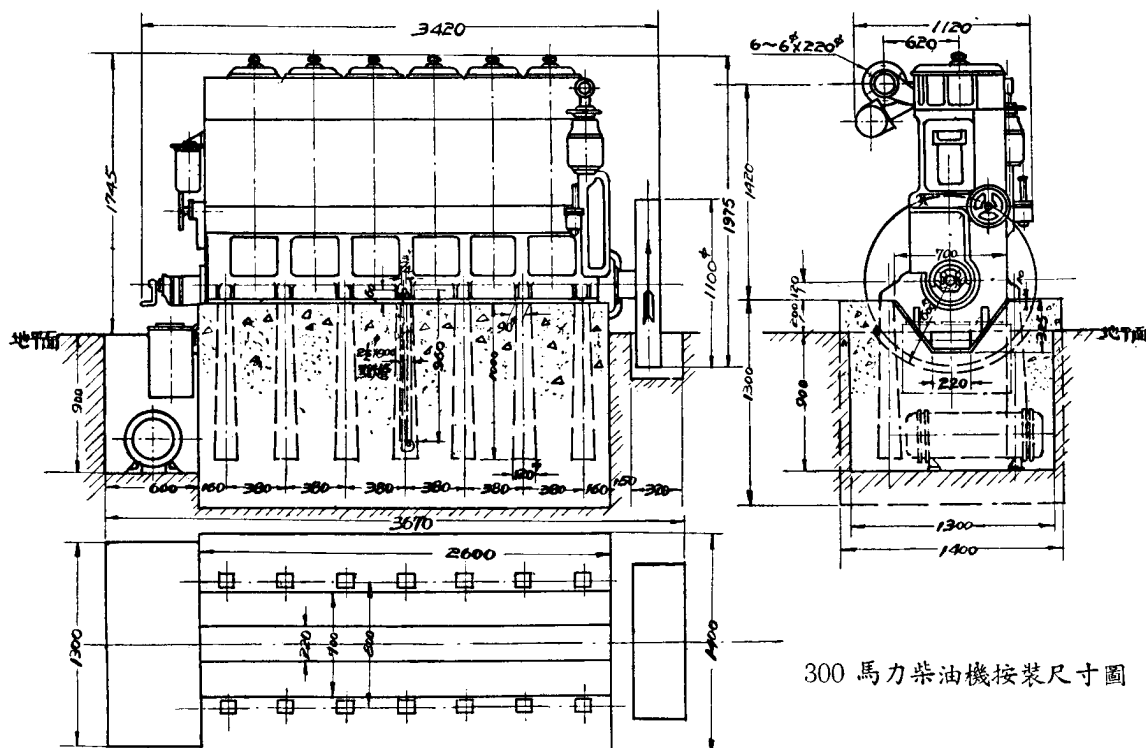
中 華 人 民 共 和 國
中 央 人 民 政 府 第 一 機 械 工 業 部

主 要 規 格

項 目	單 位	馬 力	
		200	300
汽缸數		4	6
汽缸直徑	公厘	250	250
活塞行程	公厘	300	300
壓縮比		15 : 1	15 : 1
轉速	轉/分	600	600
冷却方法		水冷	水冷
潤滑方法		壓力式	壓力式
起動方法		壓縮空氣	壓縮空氣
發火順序		1—3—4—2	1—4—2—6—3—5
燃料消耗量	公斤/馬力-小時	0.185	0.185
冷却水最大消耗量	公升/馬力-小時	25	25
飛輪直徑	公厘	1100	1100
外形尺寸(長×寬×高)	公厘	2680×1120×1975	3420×1120×1975
本機淨重	公斤	5000	8000



200 馬力柴油機按裝尺寸圖



300 馬力柴油機按裝尺寸圖

200 AND 300 H.P. DIESEL ENGINE

This kind of engine is a 4 cycle vertical type built in 4 and 6 cylinders rated of 200 and 300 horsepower respectively. The engine is applicable to power generation, marine service, locomotive and general industrial service.

The fuel system is operated with independent injection pumps, featured with rack controlled plungers and multi-hole closed type injection nozzles.

The crankshaft can be installed or taken out from the front engine frame, all of the moving parts-valves, pushrods and camshaft are built in one case, and compactively, resulting a neat appearance and safety.

The governor is driven by the camshaft, and regulate the speed within $\pm 4\%$ of the rated speed automotively. If in emergency cases, the speed exceed the predetermined limit, the engine will be tripped and brought to stop automatically.

All bearings are lubricated with a gear type pressure oil pump. If the oil pressure drop too low, through a regulating valve and safety device, the engine will be stopped automatically, thereby preventing any possible damage to the engine.

The engine is started with compressed air, an air compressor and a storage tank are provided.

At the purchaser's option, power take off from the engine can be either through direct coupling or through the use of belt pulleys. For the later arrangement, the engine will be provided with a belt pully and also an extension shaft.

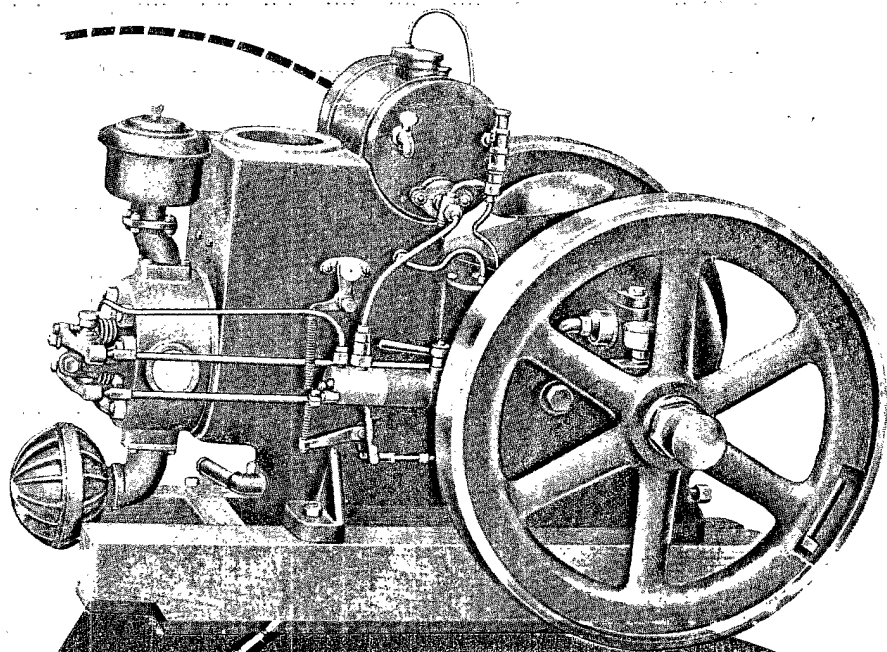
MAIN SPECIFICATIONS

Item	Unit	200H.P.	300H.P.
Number of cylinders		4	6
Dia. of cylinder	m.m.	250	250
Stroke	m.m.	300	300
Compression ratio		15:1	15:1
Speed	R.P.M.	600	600
Cooling method		water	water
Lubricating system		pressure	pressure
Starting system		air	air
Firing order		1-3-4-2	1-4-2-6-3-5
Specific fuel consumption	kg./H.P.-hr.	0.185	0.185
Max. cooling water consumption	L./H.P.-hr.	25	25
Dia. of fly wheel	m.m.	1100	1100
Overall dimensions	m.m.	2680×1120×1975	3420×1120×1975
Net weight	kg.	5000	8000

THE FIRST MINISTRY OF MACHINE BUILDING INDUSTRY,
CENTRAL PEOPLE'S GOVERNMENT, PEOPLE'S REPUBLIC OF CHINA.

DIESEL ENGINE 5 H.P.

五匹
柴油機



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

5 H.P. DIESEL ENGINE

This 5 H.P. Diesel Engine is simple and light in construction. It is portable and is especially suitable for generation of power for farm irrigation, small lighting unit, cotton-gin, oil press, sugarcane press, grain mill, etc. It is powerful and steady, easy to start and simple in maintenance. Only a short period is required to master its operation.

SPECIFICATION

Type	....	....	Horizontal, single cylinder, four stroke, pre-combustion chamber.
Rated Power	....	....	5 H.P.
Maximum Power	....	....	5½ HP.
Cylinder bore	....	....	110 mm.
Stroke	....	....	170 mm.
Piston displacement	....	....	1.62 litres
Rated speed	....	....	700 rpm.
Compression ratio	....	....	17.5 : 1
Speed regulation	....	....	4%
Belt pulley :			
Diameter	....	....	250 mm.
Width	....	....	100 mm.
Lubrication	....	....	Pressure lubrication and grease
Fuel consumption	....	....	210 - 232 gr./H.P.hr.
Average temperature of cooling water	....	....	100°C.
Starting	....	....	Manual and paper ignition

Overall dimension (LxWxH) 1125x830x780 mm.

Net weight 380 kg.

Engine Accessories :

Socket wrench 1 pce.

Flywheel nut wrench 1 „

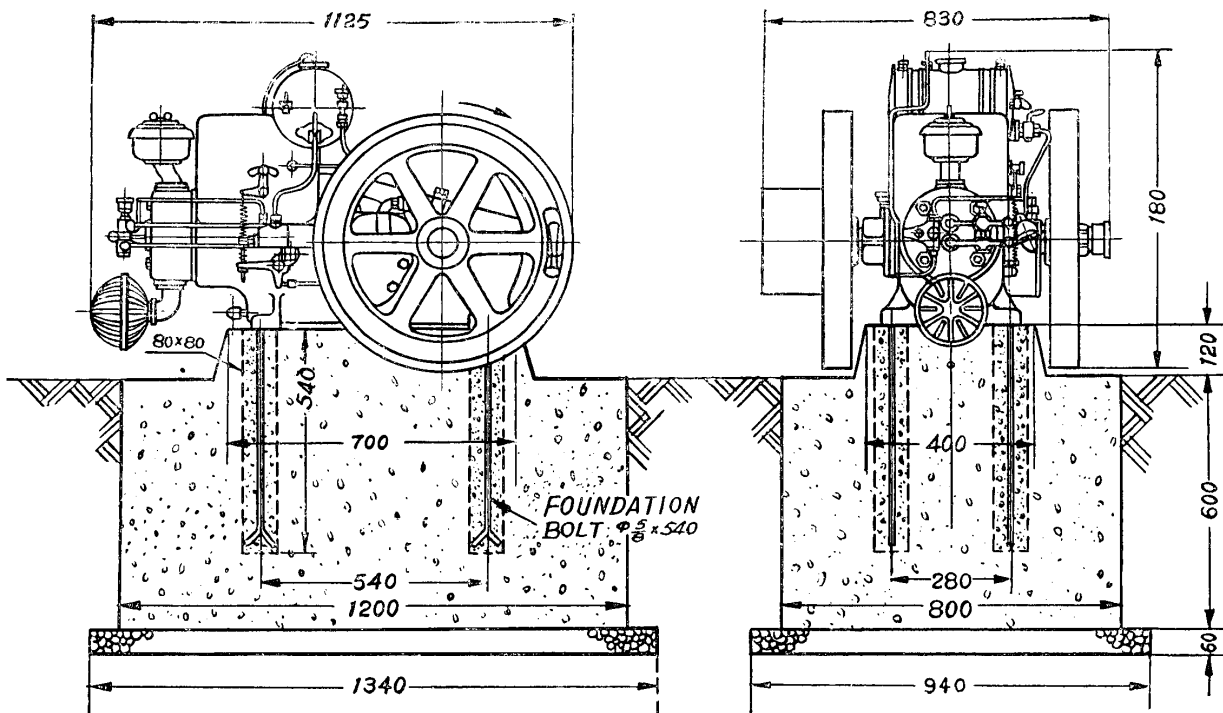
22-27 double wrench 1 „

32 open end wrench 1 „

8" Monkey wrench 1 „

6" Screw driver 1 „

Piston ring 1 „



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

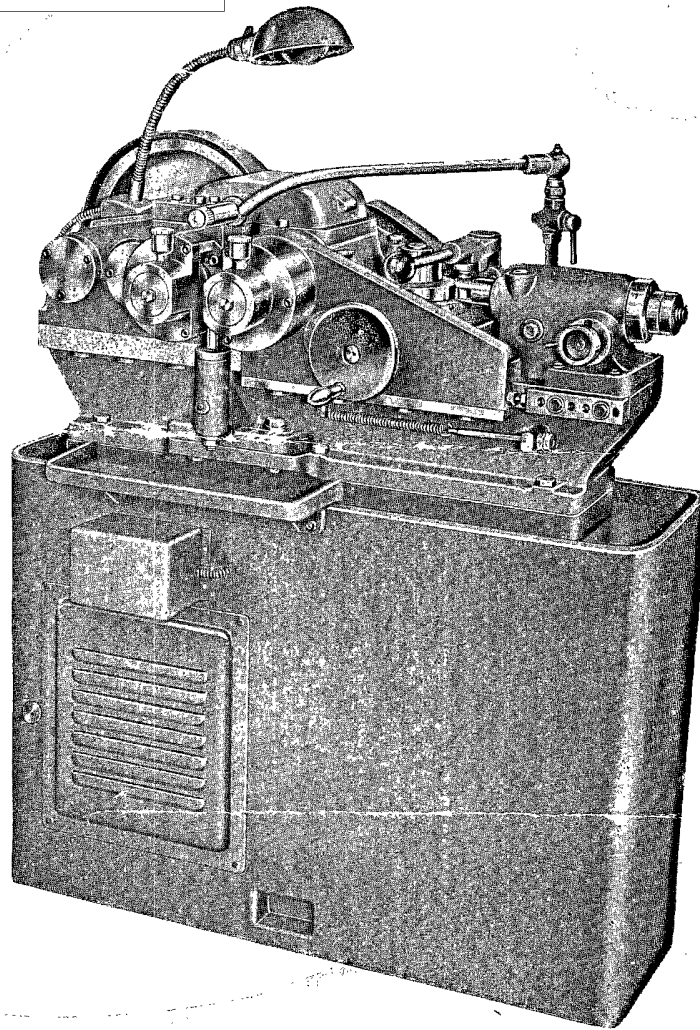
BRANCHES

TIENTSIN OFFICE:	171 Chien Shien Road (Ho Si District) Cable Address: MACHIMPORT Tientsin
SHANGHAI OFFICE:	27 Chung Shan Road E I Cable Address: MACHIMPORT Shanghai
CANTON OFFICE:	No. 2, West Bund Road, Canton Cable Address: MACHINERY Canton

Thread Rolling Machine

25X1

滾絲機



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

Universal Semi-automatic Thread Rolling Machine

Model

The.....Universal Semi-automatic Thread Rolling Machine is designed particularly for thread rolling of various machine component parts.

Threads are rolled through two rollers with thread cuts. On account of the radial pressure produced on approach of the rollers, the same thread cuts on the surface of the rollers are rolled onto the surface of the workpiece which is placed in special chucks and between rotating rollers. Instantaneous tangential push forces make the workpiece rotate, and threads similar to those on the rollers are then rolled onto the whole surface of the workpiece.

Roller speeds are adjusted through interchangeable gears. Spindle head feeds are effected through a cam and adjusted by means of interchangeable gears.

The machine operates in either semi-automatic or automatic cycles in conformity with the contour of the cam. Under the first instance, the feed movements of the spindle head are automatically stopped after the rolling operation is completed.

Individual motor drive is provided for the machine.

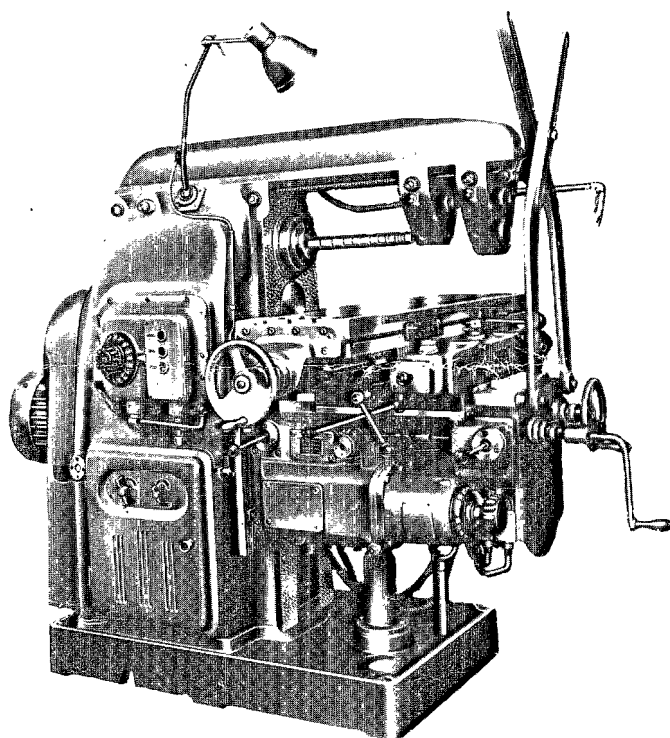
SPECIFICATIONS

Distance, chuck face to center line of spindle	220 mm
Distance between spindles, minimum and maximum	90 - 150 mm
Diameter rolled, minimum and maximum	6 - 33 mm
Maximum pitch of thread	2.5 mm
Maximum length of thread	40 mm
Diameter of rollers, minimum and maximum	90 - 105 mm
Maximum travel of movable spindle head	10 mm
Spindle speeds	40; 60; 86; 125; 183; 260 rpm
Range of feed cam speed	1.1 - 66.8 rpm
Range of feed, per revolution of workpiece	0.005 - 0.15 mm
Drive, 3 phase, A.C. motor:	
Power	3.2 KW
Speed	1440 rpm
Overall dimension (length x width x height)	1070 x 600 x 1070 mm
Net weight	approx. 625 kg

N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

Horizontal Milling Machine

MODEL X62



臥式銑床

25X1

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: MACHIMPORT PEKING

HORIZONTAL MILLING MACHINE MODEL X62

This machine is a superior miller equipped with high grade electric control device, and suitable for multi-purpose, general, and complicated milling operations. It may be adopted in small and big workshops, as well as automobile manufacturing plants.

Outstanding features:—

1. Rigid construction, ample power, high speeds, and capability of using carbide cutting tools for high speed cutting.
2. Working table, being equipped with automatic start, automatic stop, intermittent and reciprocating motions for the automatic working cycle, is suitable for lot or mass production.
3. Hand levers and push buttons for operating the machine are mounted on both the left and front sides of machine.
4. The start and stop of spindle and the rapid traverse of working table are all controlled by means of push buttons, while the working table may be driven by power or by hand.
5. Spindle and feed are driven separately, change of speeds and feeds are obtained through the selection dials of gear box and feed box.
6. There is a device for eliminating backlash between table feed screw and half-nut, thus climb cutting may be accomplished. Accessories: Arbor and spanners etc.

Main dimensions:—

Distance, centre line of spindle to top of table:		
Minimum		30 mm.
Maximum		450 mm.
Distance, centre of table to bedways:		
Minimum		205 mm.
Maximum		455 mm.
Distance, centre line of spindle to overarm:		155 mm.

Working table:—

Working surface of table (L x W)		1250x320 mm.
Max. table travel:		
Longitudinal		700 mm.
Cross:	Power	230 mm.
	Manual	250 mm.
Vertical:	Power	400 mm.
	Manual	420 mm.

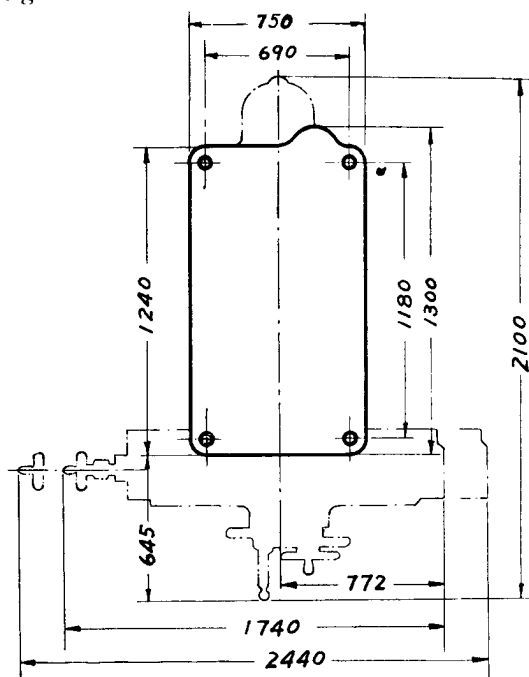
Mechanical capacity:—

Number of spindle speeds	18
Range of spindle speed	30-1500 rpm.
Number of longitudinal, cross, and vertical table feeds	18
Range of longitudinal, cross, and vertical table feeds	19-950 mm/min.
Range of vertical feed	1/3 longitudinal feed
Rapid traverse speed of working table:	
Longitudinal	2300 mm/min.
Cross	2300 mm/min.
Vertical	770 mm/min.

Drive, overall dimension and weight:—

Motors: 3-phase, A.C.

for main drive:	Power	7 KW.
	Speed	1445 rpm.
for feeding:	Power	2.8 KW.
	Speed	1440 rpm.
for coolant pump:	Power	0.125 KW.
	Speed	2800 rpm.
Overall dimension (L x W x H)		2100x1740x1615 mm
Net weight		3000 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

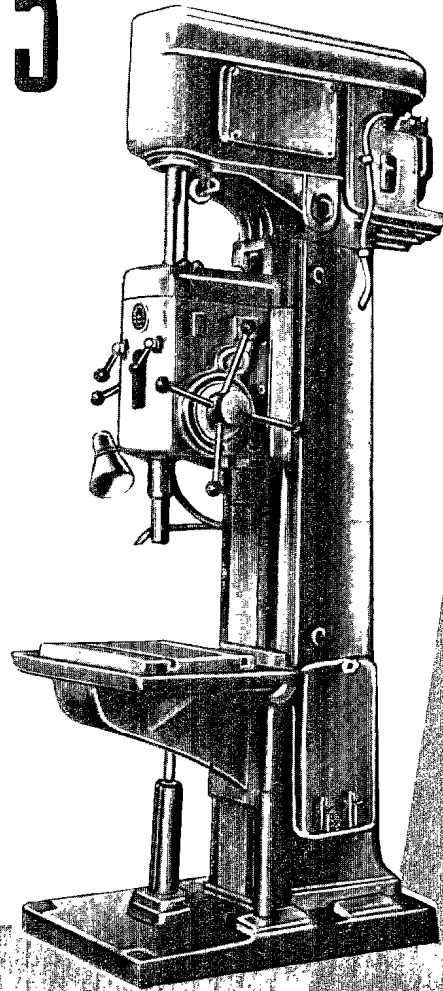
BRANCHES

<i>TIENTSIN OFFICE:</i>	171 Chien Shien Road (Ho Si District) Cable Address: MACHIMPORT Tientsin
<i>SHANGHAI OFFICE:</i>	27 Chung Shan Road E I Cable Address: MACHIMPORT Shanghai
<i>CANTON OFFICE:</i>	No. 2, West Bund Road, Canton Cable Address: MACHINERY Canton

Vertical Drilling Machine

Model Z525

立式鑽床



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

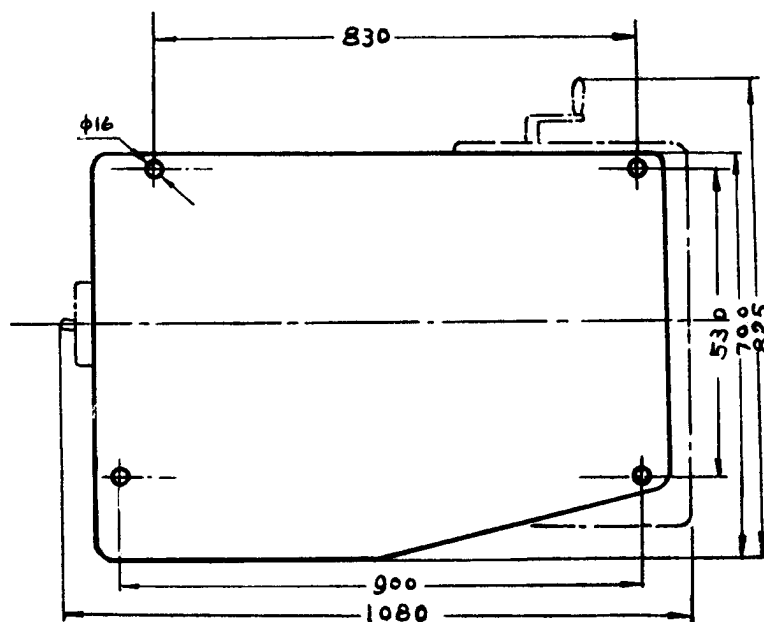
ER-LI-KOU, HSI-CHIAO, PEKING, CHINA CABLE ADD: MACHIMPORT PEKING

VERTICAL DRILLING MACHINE MODEL Z525

This machine is suitable for drilling, reaming, facing and tapping operations in repair shops or tool rooms for single piece or small scale production.

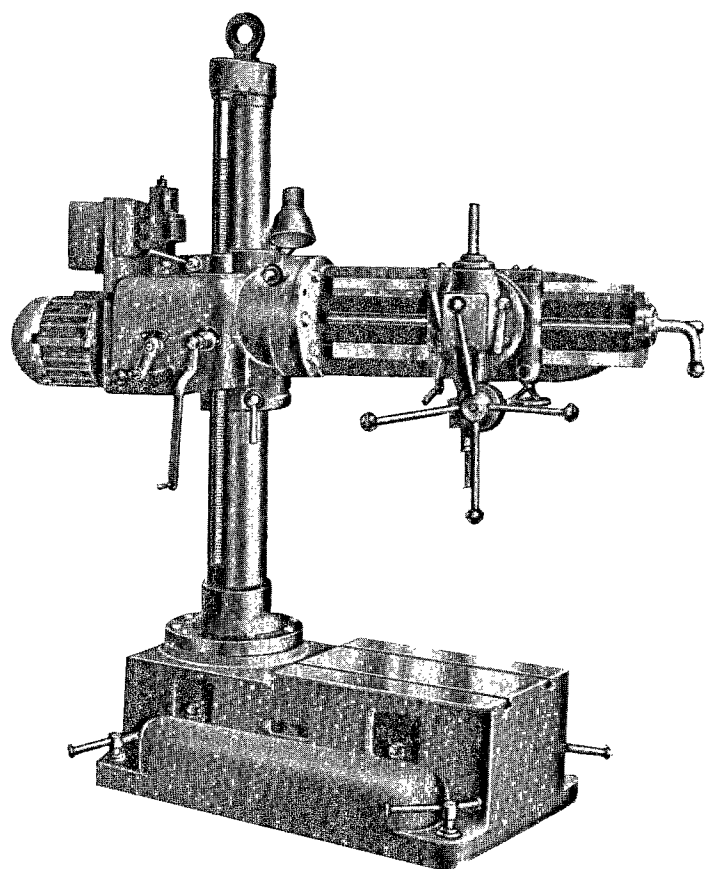
Drilling capacity:

Max. diameter	25 mm.
Max. depth	175 mm.
Distance, centre line of spindle to column	250 mm.
Max. distance spindle nose to table	700 mm.
Number of spindle speeds	9
Range of spindle speed	96.5-1350 rpm. (68-950; 132-1850; or 187-2620 rpm. available on special request)
Range of spindle feed	0.1-0.81 mm/rev.
Electric Motor:	3-phase, A.C.
Power	2.8 KW.
Speed	1420 rpm.
Overall dimensions (LxWxH)	1060x825x2295 mm.
Net weight	1025 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

Portable
Radial Drilling Machine
MODEL Z 32K



移動式

搖臂鑽床

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

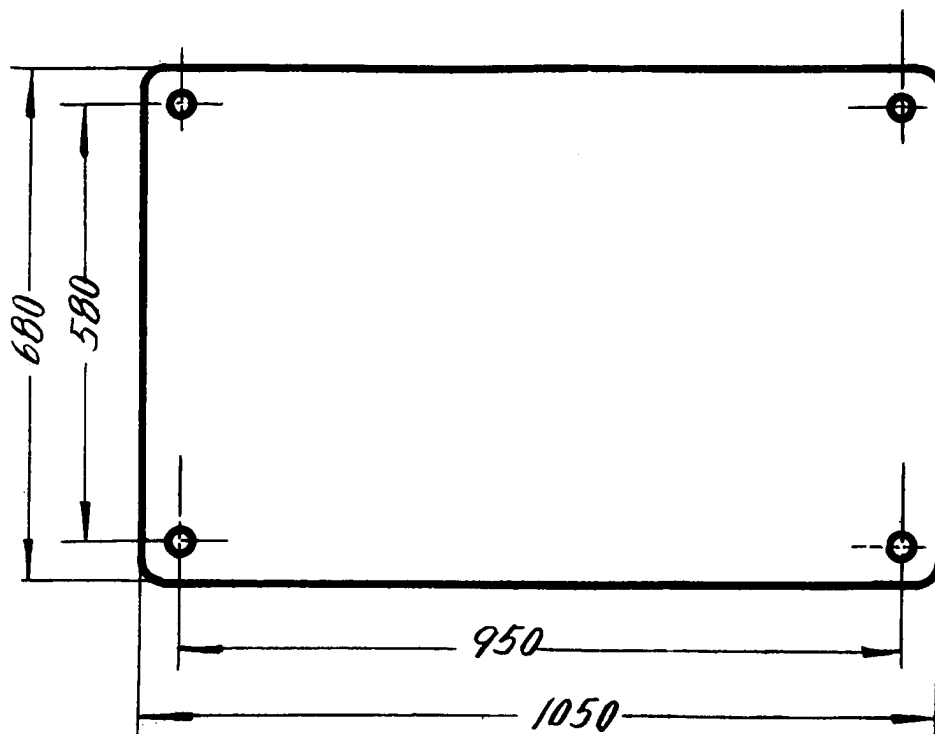
PORTABLE RADIAL DRILLING MACHINE

MODEL Z32K

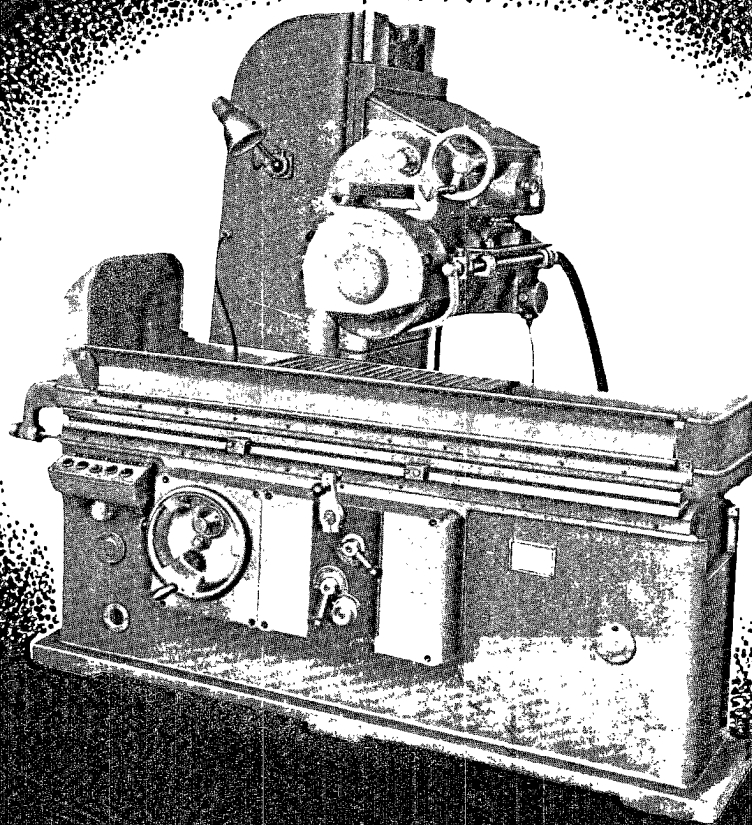
This machine is intended for drilling operations on heavy and box like workpieces during erection and installation. It can be moved (with base of the machine on rollers) or shifted by crane to the workpieces. By swivelling the cross arm and the spindle head stock, the spindles can be adjusted to operate on plane of any inclination.

SPECIFICATION

Max. drilling capacity	25 mm.
Distance, centre of spindle to column:	
Maximum	815 mm.
Minimum	315 mm.
Distance, spindle nose to bedplate:	
Maximum	870 mm.
Minimum	25 mm.
Taper of hole in spindle	Morse No. 2
Max. travel of spindle (manual)	130 mm.
Max. horizontal travel of spindle headstock (manual)	500 mm.
Max. swivel of spindle headstock	360°
Max. travel of arm (manual)	840 mm.
Max. swivel of arm around vertical centre line of column	360°
Max. swivel of arm around horizontal centre line of arm	360°
Spindle speed	175, 432, 693, 980 rpm.
Motor: 3-phase, A.C., flanged:	
Power	17 KW.
Speed	1430 rpm.
Overall dimensions (L x W x H)	1800 x 680 x 2000 mm.
Net weight	780 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.



平面磨床

*Hydraulic Surface
Grinding Machine*
MODEL M7130

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

HYDRAULIC SURFACE GRINDING MACHINE

Model M7130

This machine is suitable for grinding plane surfaces of various machine parts (with the circular face of grinding wheel) held either on the table or electromagnetic chuck.

The machine is provided with three electric motors. All push-buttons are concentrated on the front side of machine.

The longitudinal travel of table is hydraulically actuated, whereas the cross feed of wheel head may be operated either hydraulically or manually.

The cross feed of wheel head may be set to operate continuously or intermittently. The amount of intermittent cross feed and the speed of continuous feed are controlled by a valve in the hydraulic system.

The vertical feed of the wheel head is accomplished by hand.

SPECIFICATION

1. *Workpiece:*

Max. dimension of workpiece

ground (L × W × H) 1000 × 300 × 400 mm.

2. *Table:*

Working surface of table

(L × W) 1000 × 300 mm.

Travel of table (hydraulic):

Min. 200 mm.

Max. 1175 mm.

Spindle axis to working surface of table:

Min. 126 mm.

Max. 575 mm.

3. *Wheel Head:*

Max. movement of wheel head:

Cross (hydraulic or manual) 350 mm.

Vertical (manual) 400 mm.

Diameter of grinding wheel:

Min. 250 mm.

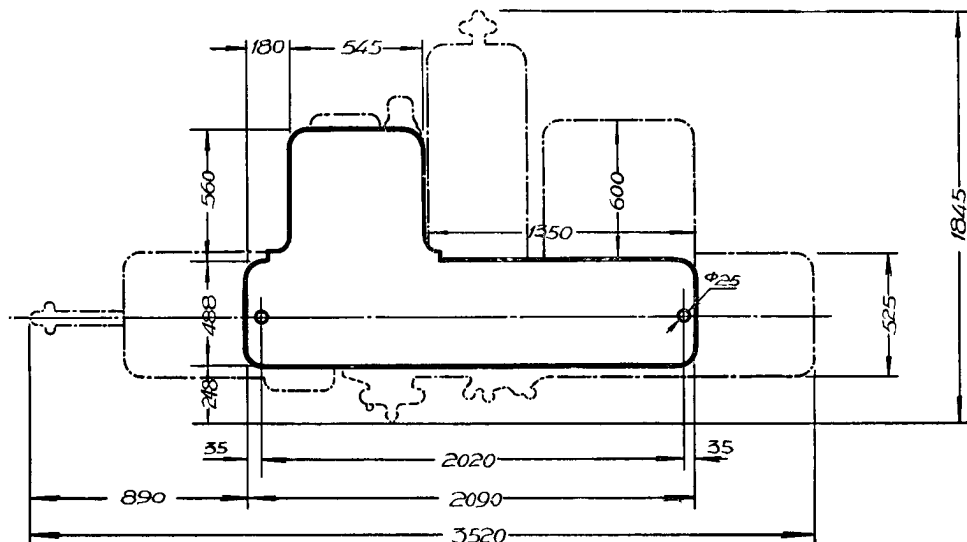
Max. 350 mm.

Width of grinding wheel 40 mm.

4. *Machine mechanism:*

Wheel head spindle speed 1440 rpm.

- Table speed (hydraulic) 1-30 m/min.
- Wheel head intermittent cross feed
per stroke of table (hydraulic):
- Min. 3 mm.
- Max. 30 mm.
- Wheel head continuous cross feed (hydraulic):
- Min. 0.3 m/min.
- Max. 4.5 m/min.
- Wheel head vertical feed per
graduation of dial (manual) 0.01 mm.
5. *Hydraulic pump:*
- Speed 950 rpm.
- Discharge 120 lit./min.
- Working pressure 10 atm.
6. *Motors:* 3-phase, A.C.
- for Wheel head: Power 4.2 KW.
- Speed 1440 rpm.
- for Hydraulic pump: Power 2.7 KW.
- Speed 950 rpm.
- for Coolant pump: Power 0.125 KW.
- Speed 2800 rpm.
7. *Overall dimension*
(L × W × H) 3505 × 1845 × 2055 mm.
8. *Net weight* 4800 kg. approx.



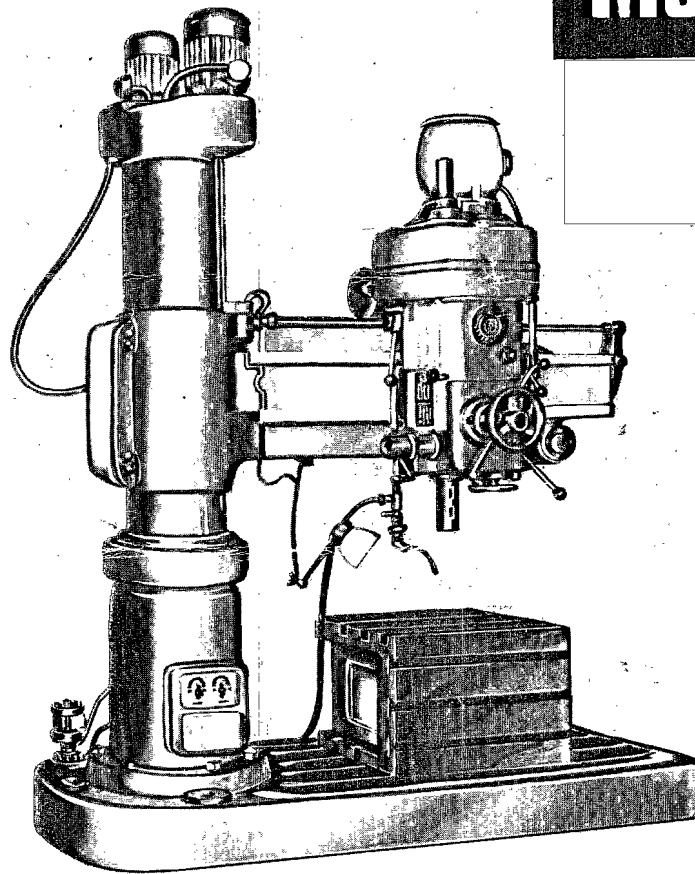
N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

TIENTSIN OFFICE:	171 Chien Shien Road (Ho Si District) Cable Address: MACHIMPORT Tientsin
SHANGHAI OFFICE:	27 Chung Shan Road E1 Cable Address: MACHIMPORT Shanghai
CANTON OFFICE:	No. 2, West Bund Road, Canton Cable Address: MACHINERY Canton

Radial Drilling Machine

Model Z35



25X1

旋臂鑽床

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA CABLE ADD: MACHIMPORT PEKING

RADIAL DRILLING MACHINE MODEL Z35

This machine is used for drilling, counter sinking, reaming, boring and tapping.

Spindle speed and feed are controlled respectively by the gear box and the feed box. Rotation of the spindle can be reversed by reversing the rotation of the motor. The spindle feed is operated by power and its rapid traverse by hand.

A single motor is used for the automatic lifting of the arm.

Clamping and release of arm on vertical column and that of spindle head on arm are accomplished by hydraulically controlled devices. The spindle head can also be clamped by hand. The swivel of arm around column and the horizontal traverse of spindle head along guide way of arm are rendered by hand.

The machine is provided with 4 motors.

Max. drilling diameter	50 mm.
------------------------	--------

Distance, centre line of spindle to column:

Minimum	450 mm.
Maximum	1500 mm.

Distance, spindle nose to working table:

Minimum	0 mm.
Maximum	1000 mm.

Distance, spindle nose to baseplate:

Minimum	470 mm.
Maximum	1500 mm.

Taper hole of spindle	Morse No. 5
Max. traverse of spindle	350 mm.
Max. traverse of spindle head on arm	1050 mm.
Max. traverse of arm on column	680 mm.
Max swivel of arm	360°
No. of spindle speeds	18

Range of spingle speeds:

Forward	30-1500 rpm.
Reverse	34-1700 rpm.

No. of spindle feeds 18

Range of feed per spindle revolution 0.03-1.2 mm.

Motors: 3-phase, A.C.

for driving spindle:	Power	4.5 KW.
	Speed	1500 rpm.

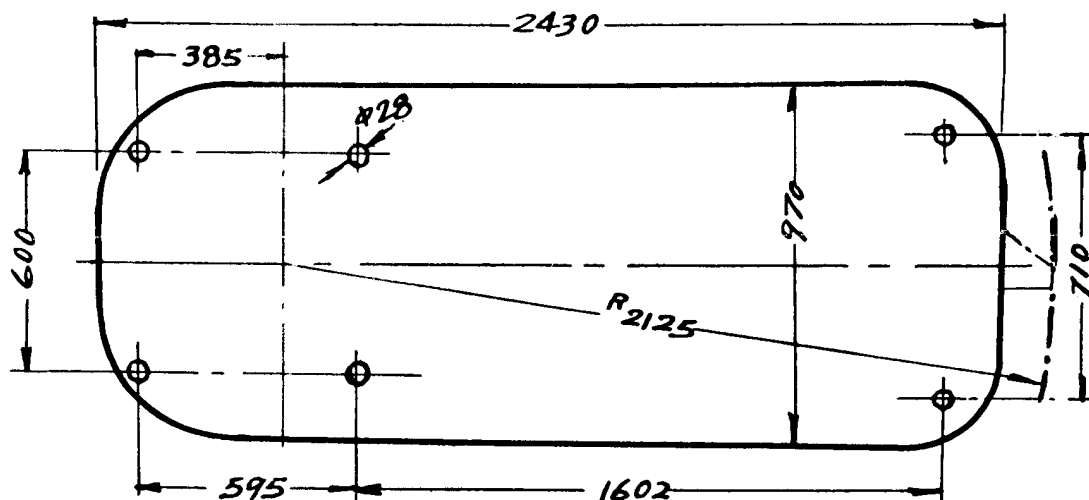
for lifting arm:	Power	1.7 KW.
	Speed	1500 rpm.

for clamping arm:	Power	0.6 KW.
	Speed	1500 rpm.

for coolant pump:	Power	0.125 KW.
	Speed	2800 rpm.

Overall dimension (LxWxH) 2610x970x3000 mm.

Net weight 4300 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

TIENTSIN OFFICE: 171 Chien Shien Road (Ho Si District)
Cable Address: MACHIMPORT Tientsin

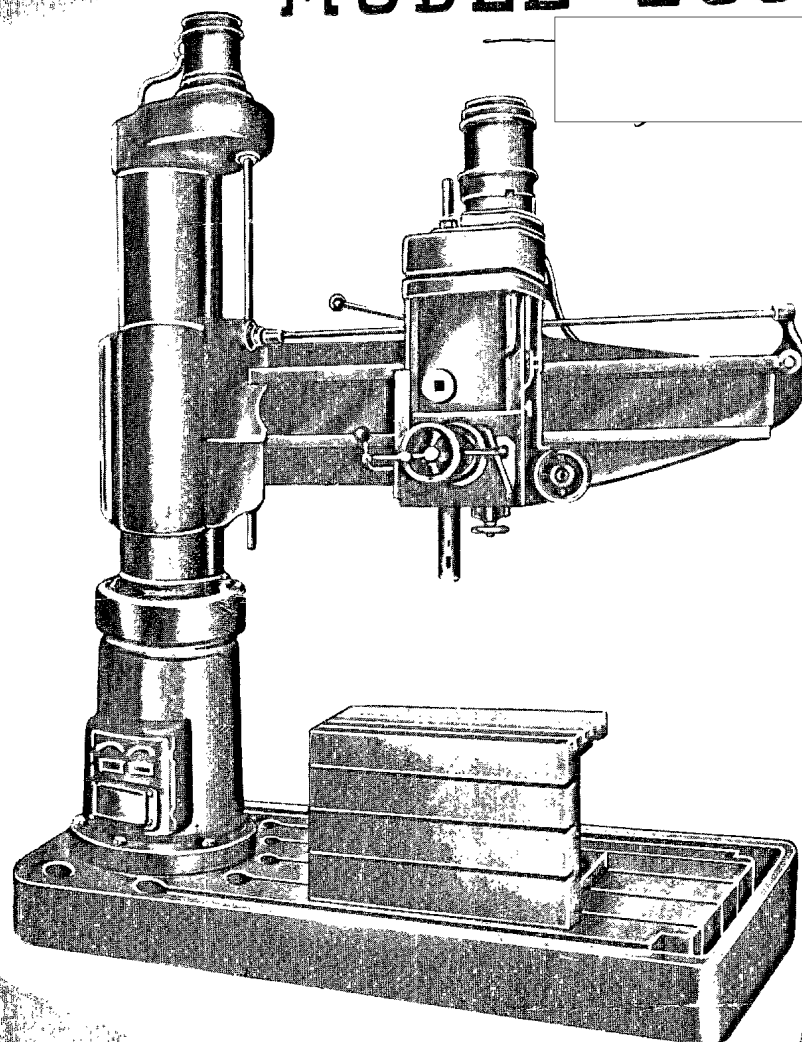
SHANGHAI OFFICE: 27 Chung Shan Road E I
Cable Address: MACHIMPORT Shanghai

CANTON OFFICE: No. 2, West Bund Road, Canton
Cable Address: MACHINERY Canton

Radial Drilling Machine

MODEL Z33

25X1



旋臂鑽床

中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

RADIAL DRILLING MACHINE

MODEL Z33

This machine is used for drilling, counter-boring, reaming, boring and tapping. The spindle is driven by a reversible motor. Feeds are performed either automatically or by hand.

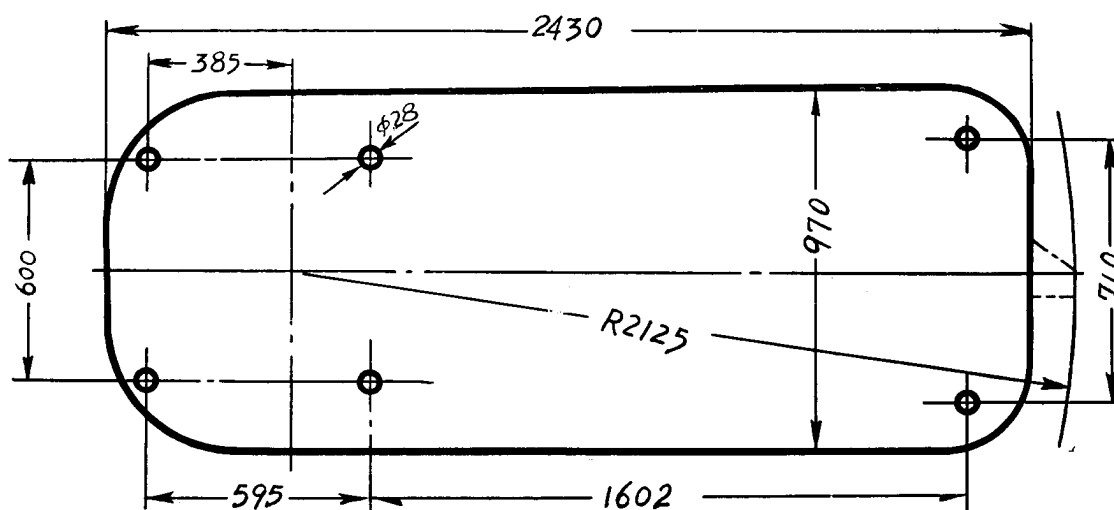
The spindle box moves horizontally along the arm and may be locked in any position by hand. The lifting of the arm along the column is effected by a single electric motor. It is released or clamped automatically at starting and stopping of the motor. The arm can be swivelled around the column by hand.

The change of spindle speed is obtained through the change-gear box, and change of feed rate through the feed box.

Max. drilling capacity	35 mm.
Distance, centre of spindle to column (overhang):	
Minimum... ..	450 mm.
Maximum	1500 mm.
Distance, spindle nose to table:	
Minimum... ..	0 mm.
Maximum	1000 mm.
Distance, spindle nose to base:	
Minimum... ..	500 mm.
Maximum	1500 mm.
Spindle travel (power or manual)... ..	330 mm.
Taper in spindle bore	Morse No. 4
Vertical travel of spindle head	1050 mm.
Max. vertical travel of arm on column	689 mm.
Max. swivel of arm on column	360°
Vertical rapid travel speed of arm	1.2 m/min.
No. of spindle speeds	12
Spindle speed range	45-2090 rpm.
No. of spindle feeds	12
Spindle feed range	0.03-1 mm/rev.

Electric Motors: 3-phase, A. C.

drilling motor:	Power	...	...	...	...	...	...	...	...	3.2 KW.
	Speed	...	...	...	...	...	...	...	...	1450 rpm.
elevating motor:	Power	...	...	...	...	...	...	...	...	1.5 KW.
	Speed	...	...	...	...	...	...	...	...	1425 rpm.
coolant pump motor:	Power	...	...	...	...	...	...	...	...	0.125 KW.
	Speed	...	...	...	...	...	...	...	...	2800 rpm.
Overall dimensions (L x W x H)		...	...	...	...	...	...	...	...	2500 x 970 x 3350 mm.
Net weight		...	...	...	...	...	...	...	...	4100 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

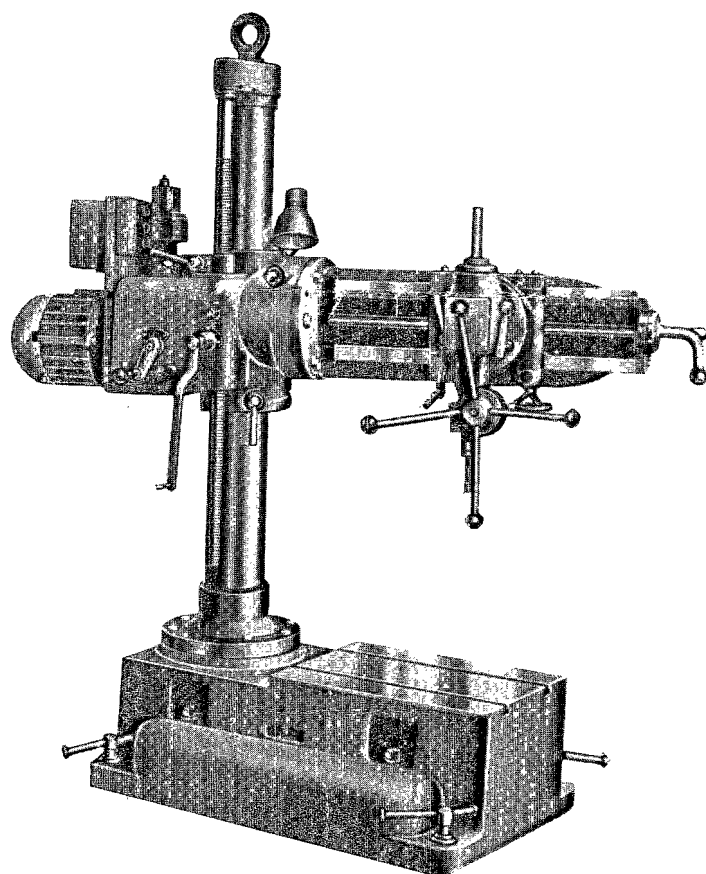
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*Portable
Radial Drilling Machine*
MODEL Z 32K

25X1

移動式

搖臂鑽床



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

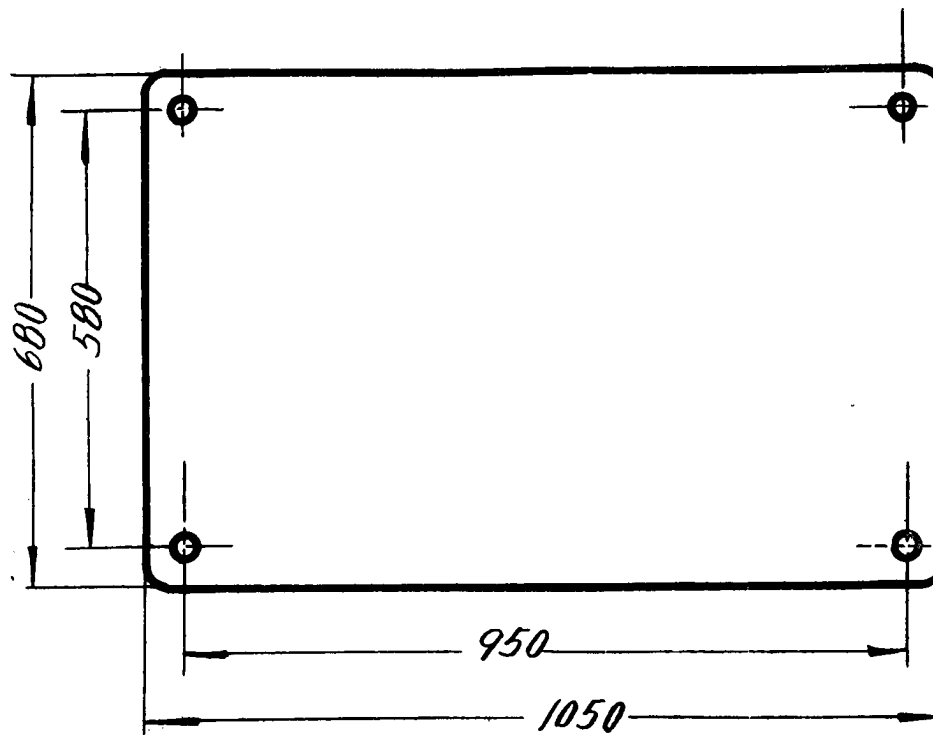
PORTABLE RADIAL DRILLING MACHINE

MODEL Z32K

This machine is intended for drilling operations on heavy and box like workpieces during erection and installation. It can be moved (with base of the machine on rollers) or shifted by crane to the workpieces. By swivelling the cross arm and the spindle head stock, the spindles can be adjusted to operate on plane of any inclination.

SPECIFICATION

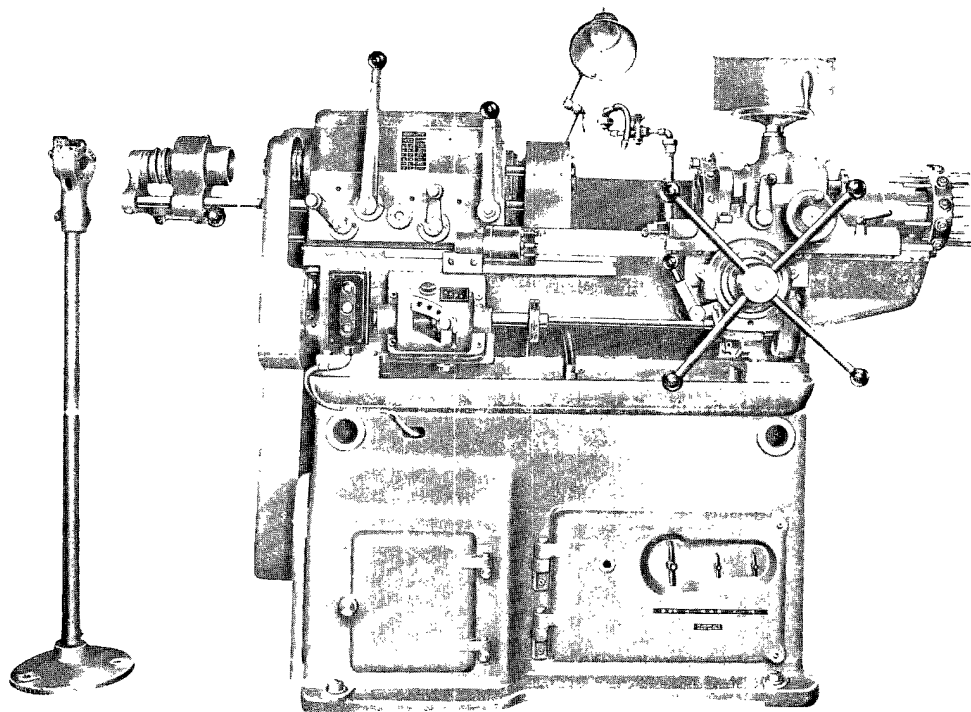
Max. drilling capacity	25 mm.
Distance, centre of spindle to column:	
Maximum	815 mm.
Minimum	315 mm.
Distance, spindle nose to bedplate:	
Maximum	870 mm.
Minimum	25 mm.
Taper of hole in spindle	Morse No. 2
Max. travel of spindle (manual)	130 mm.
Max. horizontal travel of spindle headstock (manual)	500 mm.
Max. swivel of spindle headstock	360°
Max. travel of arm (manual)	840 mm.
Max. swivel of arm around vertical centre line of column	360°
Max. swivel of arm around horizontal centre line of arm	360°
Spindle speed	175, 432, 693, 980 rpm.
Motor: 3-phase, A.C., flanged:	
Power	1 7 KW.
Speed	1430 rpm.
Overall dimensions (L x W x H)	1800 x 680 x 2000 mm.
Net weight	780 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

Trust Lube

六角車床



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in millimeters. The drawing includes a top view and a side view. Key dimensions include overall width 3200, overall height 1780, and various internal features like holes (φ22, φ23) and slots. The drawing is labeled 'C' and 'D'.

TURRET LATHE

Model C365L

This machine is suitable for turning workpieces which require a series of successive operations such as cylindrical turning, thread cutting, etc. The work-piece is held either in a three-jaw chuck or other work-holding fixtures. The necessary tools are held by collets inside the 6 holes of turret or set on a 4-way tool holder of cross slide. The machine is driven by an individual motor.

The spindle speed is controlled by headstock gears, and the feeds of turret and cross slide by feed gear box underneath the apron.

The rotation of spindle is reversible.

The turret saddle is provided with reversible power feed, hand travel and power rapid traverse with automatic disengagement at the end of the back stroke. It is also provided with automatic limit stops for stopping feeds. The feed mechanism is provided with automatic overload release. Turret saddle, cross slide, and stop-drum can be simultaneously adjusted by hand to the required positions.

The cross slide is capable of longitudinal and cross feeds, and can be automatically disengaged by means of the limit stops. It is provided with stop-drum, on which 6 stops are intended for stopping longitudinal feeds and one for stopping the cross feeds.

By means of work-holding fixtures, tapers, grooves, and threads can also be machined on this lathe.

S P E C I F I C A T I O N

Height of centres	210 mm.
Distance between end of spindle and turret face:	
Min.	260 mm.
Max.	1177 mm.
Maximum swing (for chucking work):	
Over bed ways	440 mm.
Over cross slide	350 mm.
Over carriage	420 mm.
Maximum longitudinal travel of turret (by manual or power)	917 mm.
Maximum travel of cross slide (by manual or power):	
Longitudinal	1012 mm.
Cross	259 mm.
No. of spindle speeds	12
Range of spindle speed:	
Forward	44-1000 rpm.
Reverse	48-1094 rpm.
Nos. of cross and longitudinal feeds	16
Range of feeds of turret and cross slide per revolution of spindle:	
Longitudinal	0.07-2.29 mm.
Cross	0.03-1.00 mm.
Motor (3-phase, A.C.):	
Power	10 KW.
Speed	1500 rpm.
Overall dimension (L x W x H)	3200 x 1780 x 1450 mm.
Net weight	2980 kg. approx.

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T U R R E T L A T H E

Model C325

This machine is suitable for turning all kinds of rods fixed on the spring collet or in the chuck. Cutters are secured at the 12 holes on the turret.

This machine is driven by an electric motor.

By means of the templates, profile turning can be carried out when the longitudinal feed of turret and the cross feed are taking place simultaneously.

The spindle speed is controlled by headstock gear box and the longitudinal feed by feed gear box.

The longitudinal feed can be automatically disengaged by means of the adjustable limit stop.

S P E C I F I C A T I O N

Height of centers	115 mm.
Distance between end of spindle and turret face	90-400 mm.
Diameter of hole in spindle	26 mm.
Max. size of bar material:	
Round (diameter)	25 mm.
Square (side)	18 mm.
Hexagonal (side)	21 mm.
Max. turning length	150 mm.
Max. diameter of work held in chuck:	
Over turret slide	250 mm.
Over bed ways	300 mm.
Max. longitudinal travel of turret	330 mm.
No. of spindle speeds	6
Range of spindle speed	140-1380 rpm.
No. of longitudinal feeds of turret	4
Range of feed per revolution of spindle	0.06-0.25 mm.
Motor (3-phase, A.C.) :	
Power	2.2 KW.
Speed	1450 rpm.
Overall dimension (L x W x H)	1815 x 740 x 1290 mm.
Net weight	900 kg. approx.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

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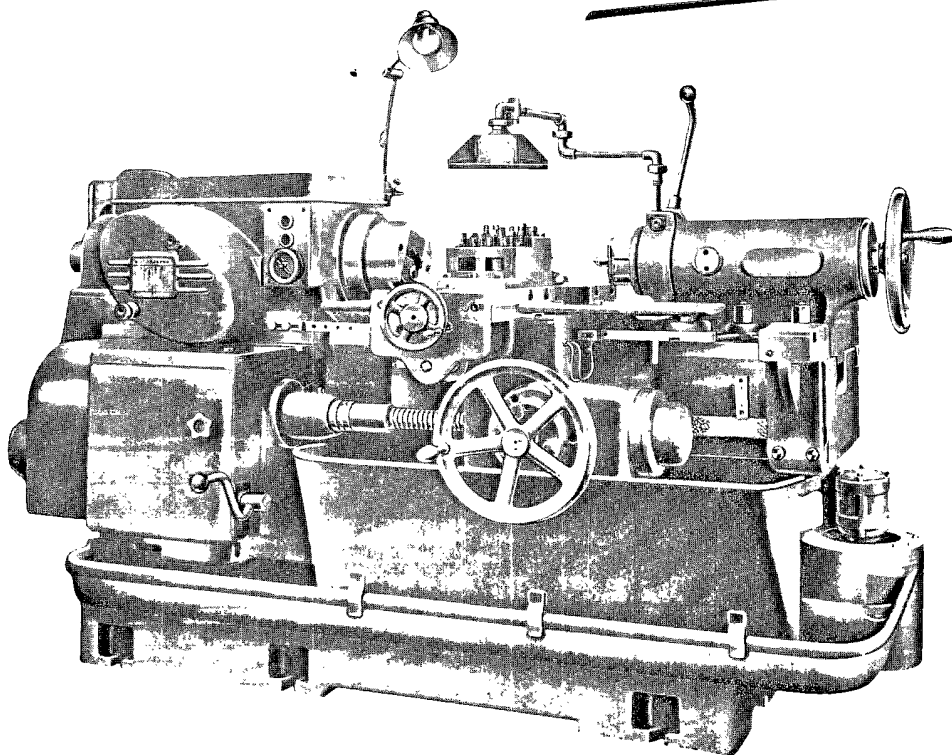
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多刀半自動車床

Multi-Cutter

Semi-Automatic Lathe

Model: C 720
C 730



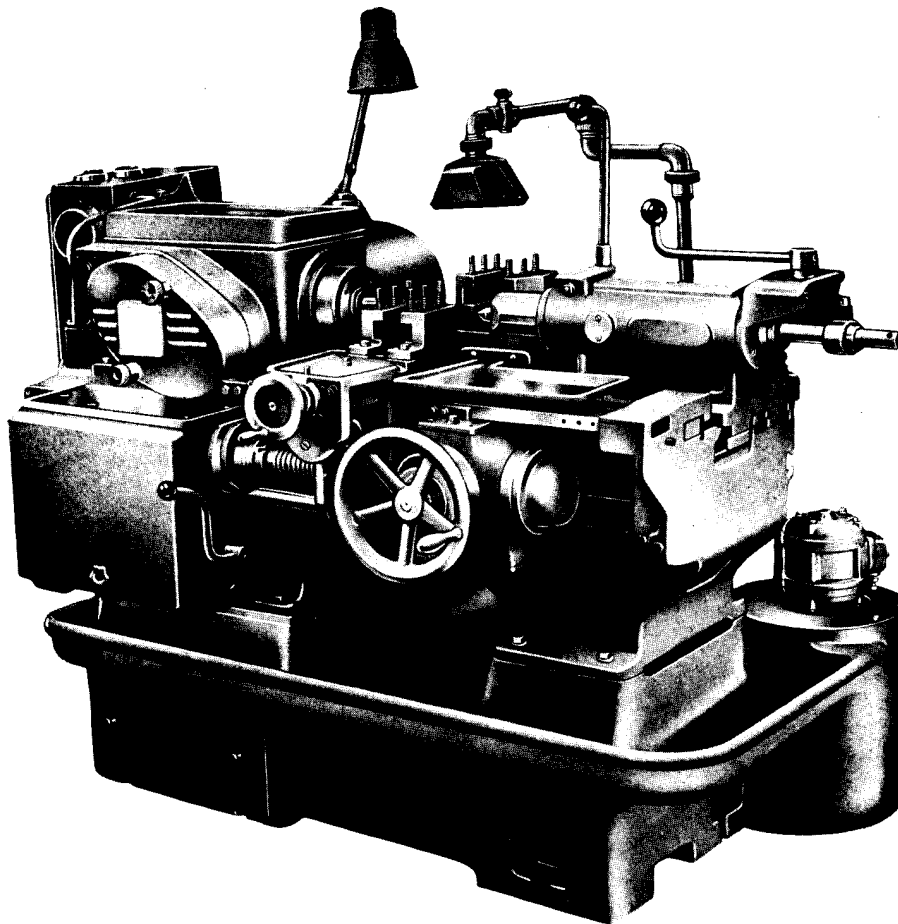
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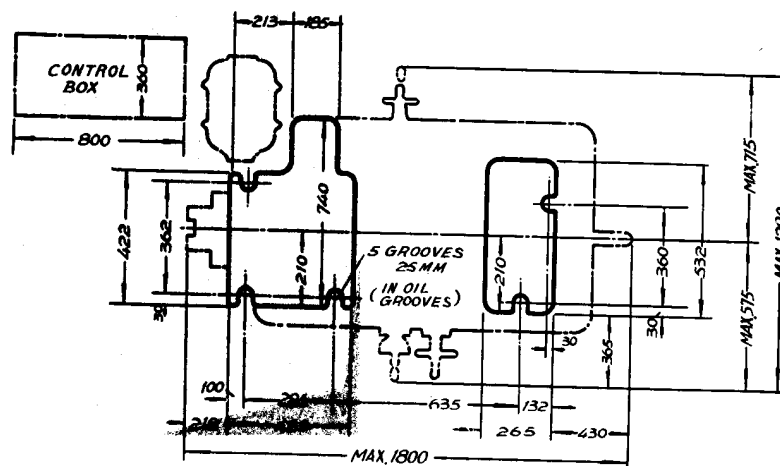
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Model C720



MULTI-CUTTER SEMI-AUTOMATIC LATHE

Model C720

The machine is suitable for machining external and end surfaces of workpieces such as stepped sleeves, pistons, gear blanks, etc., in lot and mass production.

Profile and taper turning may be effected by utilizing templates.

The machine is equipped with a front tool post (for longitudinal feed) and a rear tool post (for cross feed).

Changes of spindle speeds, longitudinal feeds of front tool post, and cross feeds of rear tool post are obtained through the change gears.

The machine is provided with an interlocking arrangement, which stops the machine automatically at the end of working cycle.

Workpieces are loaded and unloaded by hand.

The machine is operated by a single level control.

SPECIFICATION

Centre height	...	...	150 mm.
Distance between centres:			
Minimum	...	...	0 mm.
Maximum	...	...	300 mm.
Max. distance, spindle nose (ϕ 120 mm) to tailstock centre	...	...	325 mm.
Max. diameter to be turned:			
Bar material	...	...	32 mm.
Swing over carriage	...	...	200 mm.
Swing over bed	...	...	300 mm.
Max. length to be turned (with 2 pcs. of cutters):			
Using compound tool post	...	...	250 mm.
Using single tool post	...	...	260 mm.
Max. longitudinal travel of front tool post:			
Compound cutting:	Power (working)	...	100 mm.
	Manual (adjusting)	...	200 mm.
Single cutting:	Power (working)	...	150 mm.
	Manual (adjusting)	...	250 mm.
Max. cross travel of rear tool post:			
	Power (working)	...	90 mm.
	Manual (adjusting)	...	155 mm.
Max. travel of centre sleeve in tailstock	...	...	120 mm.
Spindle speeds	...	...	105; 131; 154; 196; 236; 296; 354; 442; 532; 680; 794; 1000; rpm.
Longitudinal feeds of front tool post per revolution of spindle	...	...	0.07; 0.10; 0.16; 0.23; 0.32; 0.48; 0.72; 1.02 mm.
No. of cross feeds per longitudinal feed	...	...	12
Range of cross feeds of rear tool post per revolution of spindle	...	...	0.019-2.51 mm.
Motors: 3-phase, A. C.			
for main drive:	Power	...	5.8 KW.
	Speed	...	1450 rpm.
for coolant pump:	Power	...	0.25 KW.
	Speed	...	2800 rpm.
Overall dimension (L×W×H)	...	...	1800×1290×1340 mm.
Net weight	...	...	1800 kg. approx.

Technical drawing of a mechanical component, likely a bracket or support, showing dimensions and labels.

Labels:

- CONTROL BOX
- 5 GROOVES 25MM
- CENTRES LINE

Dimensions (mm):

- Overall width: 2200
- Overall height: 1700
- Top horizontal segment: 2200
- Right vertical segment: 1015
- Bottom right vertical segment: 685
- Bottom right horizontal segment: 445
- Bottom right vertical segment: 90
- Right vertical segment: 255
- Right vertical segment: 675
- Right vertical segment: 325
- Right vertical segment: 1306
- Right vertical segment: 133
- Right vertical segment: 30
- Overall width: 1563
- Overall width: 840
- Overall width: 246
- Overall width: 101
- Overall width: 685
- Overall width: 246
- Overall width: 675
- Overall width: 30
- Overall width: 240
- Overall width: 645
- Overall width: 442
- Overall width: 502
- Overall width: 930
- Overall width: 500

MULTI-CUTTER SEMI-AUTOMATIC LATHE

Model C730

This machine is suitable for turning plain and external cylindrical surfaces of workpieces (such as stepped sleeves, pistons, gear blanks, etc.), clamped either between centres or by chuck in large scale as well as in mass production.

When equipped with template, it can also be used for profile and taper turning.

The machine is provided with a front tool slide (for longitudinal feed) and a rear tool slide (for cross feed).

The longitudinal feed of front tool slide, the cross feed of rear tool slide, and the spindle speed are controlled by means of the change gears.

The machine is equipped with an automatic interlock. It stops automatically after the working cycle is completed.

Workpieces are loaded and unloaded manually.

The machine is operated by means of a single hand lever.

SPECIFICATION

Height of centres	200 mm.
Distance between centres:	
Max.	500 mm.
Min.	200 mm.
Max. distance between spindle nose (dia. 185 mm.) and centre of tailstock	580 mm.
Max. diameter to be turned:	
Dia. of bar material	48 mm.
Over tool post	300 mm.
Over bed	410 mm.
Max. length of workpiece to be turned (with two pieces of tools)	460 mm.
Max. longitudinal travel of front tool slide:	
Power (working)	250 mm.
Manual (adjusting)	325 mm.
Max. cross travel of rear tool slide:	
Power (working)	135 mm.
Manual (adjusting)	225 mm.
Max. travel of centre sleeve of tailstock	165 mm.
Spindle speed	40; 52; 65; 84; 107; 129; 155; 187; 240; 310; 388; 500 rpm.
Longitudinal feed of front tool slide	0.12; 0.17; 0.23; 0.34; 0.49; 0.71; 0.97 1.38 mm/rev.
Number of cross feeds per longitudinal feed	12
Range of cross feed by rear tool slide	0.16-2.37 mm/rev.
Motors, A.C., 3 phase	
for Main drive:	Power ... 10 KW. Speed ... 1455 rpm.
for Rapid traverse of tool slide:	Power ... 1 KW. Speed ... 1425 rpm.
for Coolant pump:	Power ... 0.15 KW. Speed ... 2800 rpm.
Overall dimension (L × W × H)	2200 × 1700 × 1420 mm.
Net weight	3000 kg. approx.

B R A N C H E S

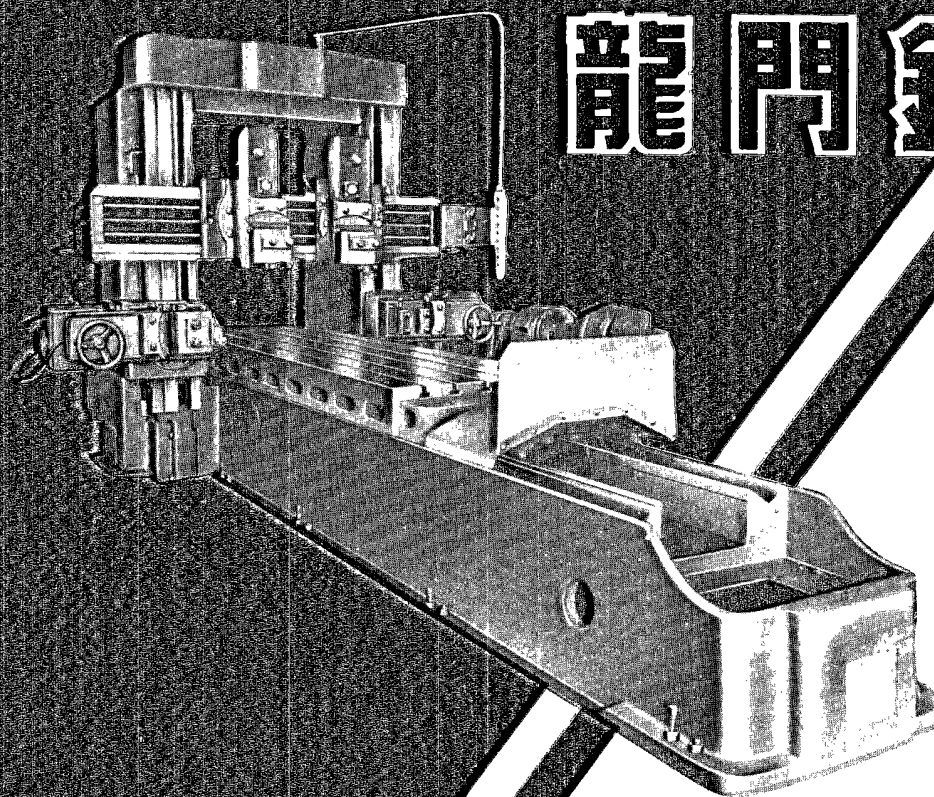
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DOUBLE HOUSING PLANNER

MODEL B210
B215



龍門鉋床

中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)
TEL: 41-KOW, HSI-CHIAO, PEKING, CHINA
CABLE ADDRESS: "MACHIMPORT" PEKING

DOUBLE HOUSING PLANER MODEL B215

This machine can be used for planing heavy castings or forgings weighing up to 10 tons.

Three sides of the workpiece can be planed by 2 vertical tool heads and 2 side tool heads simultaneously.

The working table is driven by a D. C. motor controlled by Ward-Leonard system through a pair of herring-bone speed reducing gears, worm wheel and rack. The power feeds and rapid traverse of all tool heads are also actuated by individual D. C. motors.

Clamping and travel of the cross rail are power operated.

All slide ways and principal mechanisms are lubricated by an electric motor driven oil pump.

The machine is provided with safety device against overload and interlocking device to protect the same from being damaged.

SPECIFICATION

Distance, vertical tool head to table:	Minimum	...	...	...	0 mm.
	Maximum	...	...	...	1300 mm.
Extreme position of centre line of side tool head:					
Above table surface	...	...	...	...	1050 mm.
Below table surface	...	...	...	...	200 mm.
Between two columns	...	...	...	...	1500 mm.
Maximum planing length	...	...	...	...	4000 mm.
Maximum planing width	...	...	...	...	1500 mm.
Maximum planing height	...	...	...	...	1250 mm.
Maximum safe weight of workpiece	...	...	...	...	10000 kg.
Working surface of table (L×W)	...	...	...	...	4000×1300 mm.
Stroke of table:	Minimum	...	...	...	800 mm.
	Maximum	...	...	...	4000 mm.
Range of cutting speed of table	...	...	...	...	6-60 m/min.
Range of return speed of table	...	...	...	...	12-60 m/min.
Number of feeds of vertical and side tool heads	...	...	...	...	21
Range of feed of vertical tool head per double stroke of table:					
Vertical	...	...	...	...	0.25-25 mm.
Horizontal	...	...	...	...	0.5 -50 mm.
Range of vertical feed of side tool head per working stroke of table:	...	...	...	...	0.5 -50 mm.
Rapid traverse speed of vertical tool head:					
Vertical	...	...	...	...	1500 mm/min.
Horizontal	...	...	...	...	3000 mm/min.
Vertical rapid traverse speed of side tool head	...	...	...	...	3000 mm/min.
Elevating speed of cross rail	...	...	...	...	1000 mm/min.
Total number of motors	...	...	...	...	13
Motor, 3-phase, A. C.:	Power	...	...	...	75 Kw.
	Speed	...	...	...	980 rpm.
D. C. generator:	Speed	...	...	...	975 rpm.
Exciter:	Power	...	...	...	7.8 KW.
	Speed	...	...	...	975 rpm.
D. C. motor for driving table:	Power	...	...	...	27-34 KW.
	Speed	...	...	...	132.5-1325 rpm.
A. C. motor for fan:	Power	...	...	...	1.5 KW.
	Speed	...	...	...	1450 rpm.
A. C. motor for driving speed regulator:	Power	...	...	...	above 0.5 KW.
	Speed	...	...	...	3000 rpm.
D. C. generator for speed regulator:	Output	...	...	...	0.5 KW.
D. C. motors for feeding (3 sets)	Power	...	...	...	1.75 KW.
	Speed	...	...	...	1450 rpm.
Cross rail elevating A. C. motor:	Power	...	...	...	4.5 KW.
	Speed	...	...	...	1400 rpm.
Cross rail clamping A. C. motor:	Power	...	...	...	1 KW.
	Speed	...	...	...	930 rpm.
Hydraulic pump A. C. motor:	Power	...	...	...	1 KW.
	Speed	...	...	...	1410 rpm.
Overall dimension (L×W×H)	...	...	...	...	9600×3820×3548 mm.
Net weight	...	...	...	...	32000 kg. approx.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

BRANCHES

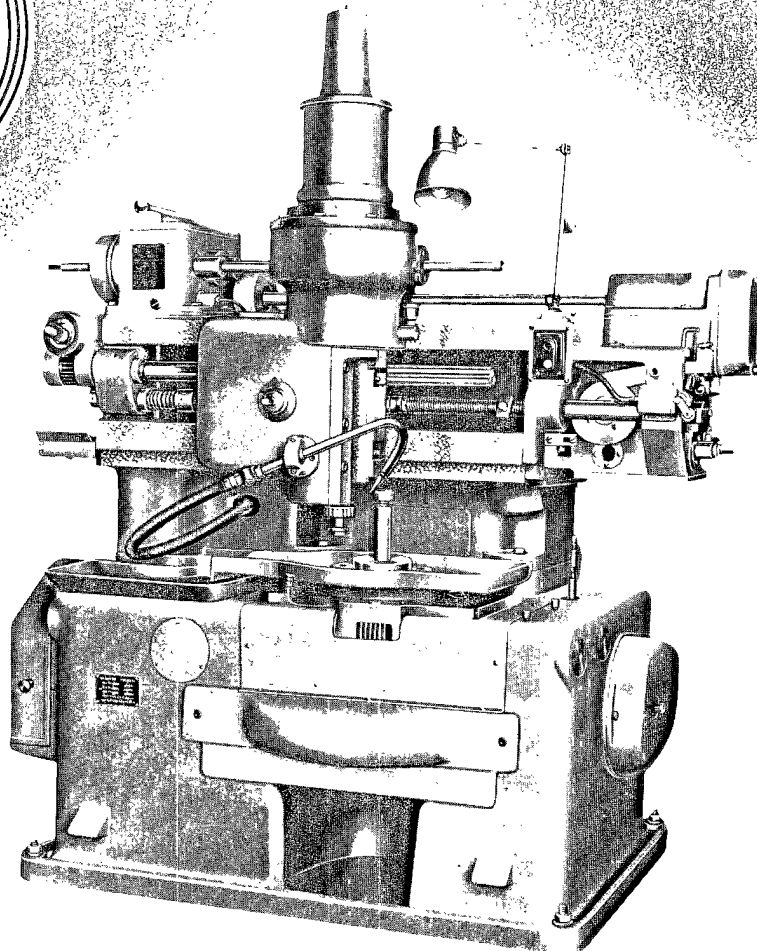
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插齒机 **SPUR GEAR** *Shaping MACHINE*

MODEL
J-546



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: MACHIMPORT, PEKING.

SPUR GEAR SHAPING MACHINE

Model J546

This machine is used for shaping internal and external spur and helical gears.

The machine works on the generating principle of workpiece and cutter rolling together. It can be employed to cut helical gears when a special copying guide is fitted on the spindle of this machine.

This machine can also be used to cut gears such as stepcone gears, gears with shoulder, etc., which provide very little recess for the run out of cutter during cutting.

The number of reciprocating strokes and circular feeds of cutter are regulated by the gear box and the feeding box respectively. The indexing mechanism is controlled by means of change gears. The stroke of cutter can be adjusted by changing the position of set pin on the crank mechanism.

The teeth of the gear may be shaped by cutter in one, two, or three strokes. The number of strokes and the feeding rate of first, second, and third stroke are controlled by means of a special mechanism.

The directions of rotation of the cutter spindle and the working table are independent of each other.

SPECIFICATION

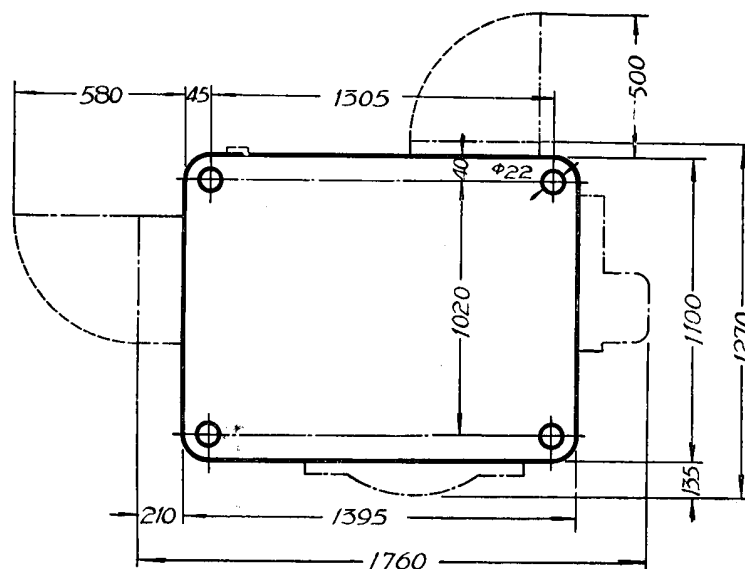
Min. and Max. module	2-6
Min. and Max. outside diameter of spur gear . . .	20-462 mm.
Max. outside diameter of helical gear (spiral angle 23°)	462 mm.
Max. outside diameter of internal gear	550 mm.
Max. face width of gear:	
External	105 mm.
Internal	75 mm.
Max. helix angle for helical gear	23°
Max. pitch diameter of gear:	
External	450 mm.
Internal (when cutter of 100 mm. dia. is used) . .	400 mm.
Max. distance between centres of work and cutter . .	350 mm.

Diameter of working table	240 mm.
Max. stroke of slide	125 mm.
Min. and Max. distance between working table and lower face of cutter head	35-160 mm.
Max. longitudinal traverse of the cutter saddle	510 mm.
Traverse of the cutter saddle per one division of the scale during adjustment of the cutting depth of the cutter	0.02 mm.
Pitch diameter of the gear cutter	100 mm.
No. of strokes of the cutter per minute	125, 172, 253, 359
Circular feed of cutter per stroke	0.17; 0.21; 0.24; 0.30; 0.35; 0.44 mm/stroke of cutter.
Average radial feed of cutter per stroke	0.024; 0.048; 0.096 mm/stroke.

Motors: 3-phase, A.C.

Main drive motor:	Power	2.8 KW.
	Speed	1440 rpm.
Motor for rapid revolving of table:	Power	0.5 KW.
	Speed	1410 rpm.
Coolant pump:	Power	0.125 KW.
	Speed	2800 rpm.

Overall dimension (L x W x H) 1760x1270x2060 mm.
Net weight 3530 kg. approx.



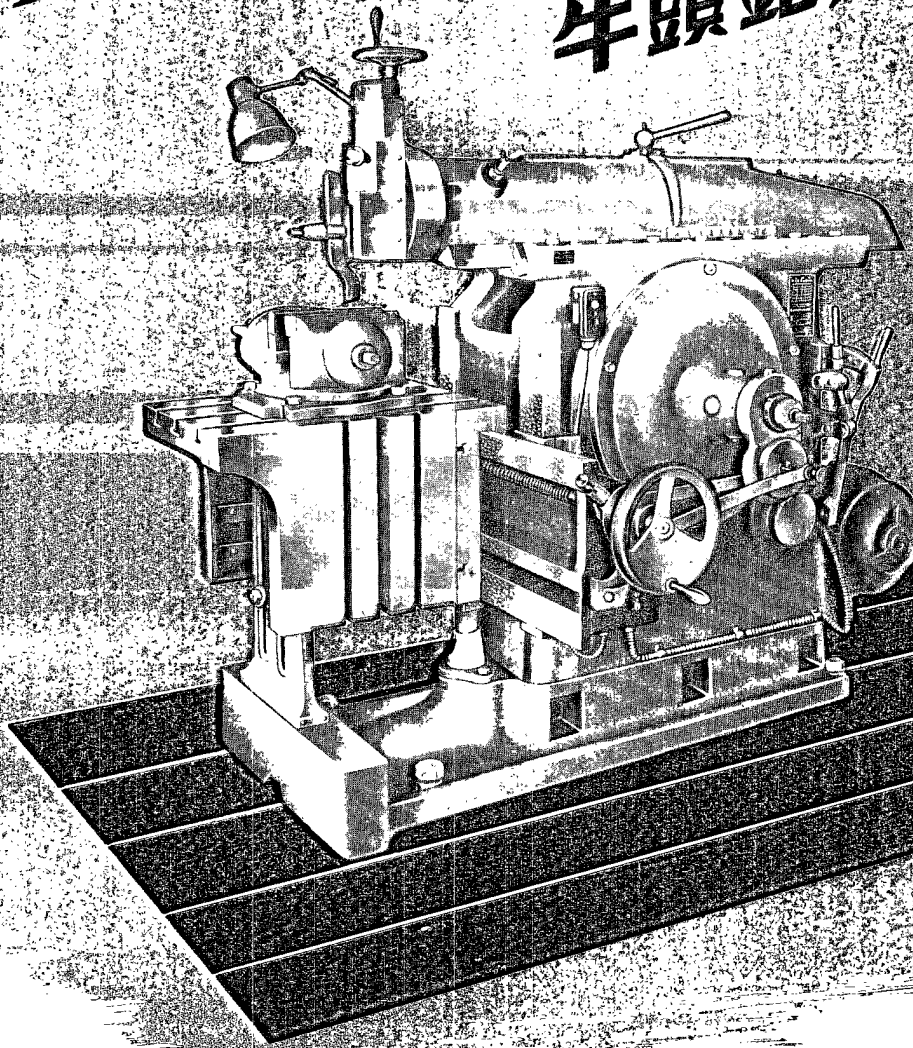
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Slaver
MODEL B 665

牛頭鉋床



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

SHAPER MODEL B665

This machine is suitable for shaping plane and formed surfaces of workpieces for small scale production.

The machine is driven by an individual motor.

The ram and tool head are actuated by a crank mechanism. The tool head can be swivelled and the vertical feed of the tool slide is effected by hand.

The horizontal traverse of table is effected either by power or manually, while the vertical traverse is actuated only by hand. The horizontal feed of work table is regulated by ratchet wheel mechanism.

Accessories attached with the machine:—

1 set — Plain vice of 240 mm width.

1 pce. — Socket wrench.

3 pcs. — Hook wrenches.

SPECIFICATION

Max. stroke of ram 650 mm.

Max. distance between lower edge of
ram and table 370 mm.

Max. distance from tool bottom to
machine bed (overhang) 700 mm.

Table (L x W):—

Top 550 x 450 mm.

Side 450 x 400 mm.

Saddle of table 450 x 400 mm.

Max. travel of table:—

Horizontal (power or manual) 600 mm.

Vertical (manual) 300 mm.

Max. size of shank (W x H) 20 x 30 mm.

Table horizontal feed per stroke of ram:

Motor: 3-phase, A.C.

Remarks :

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in millimeters. The drawing includes a side view and a top view. Key dimensions are: overall width 2500, overall height 1560, mounting hole diameter 30, and various other structural dimensions like 1485, 600, 580, 55, 1200, 490, 700, and 370.

Sanitized Copy Approved for Release 2010/04/02 : CIA-RDP80T00246A044400030001-5

BRANCHES

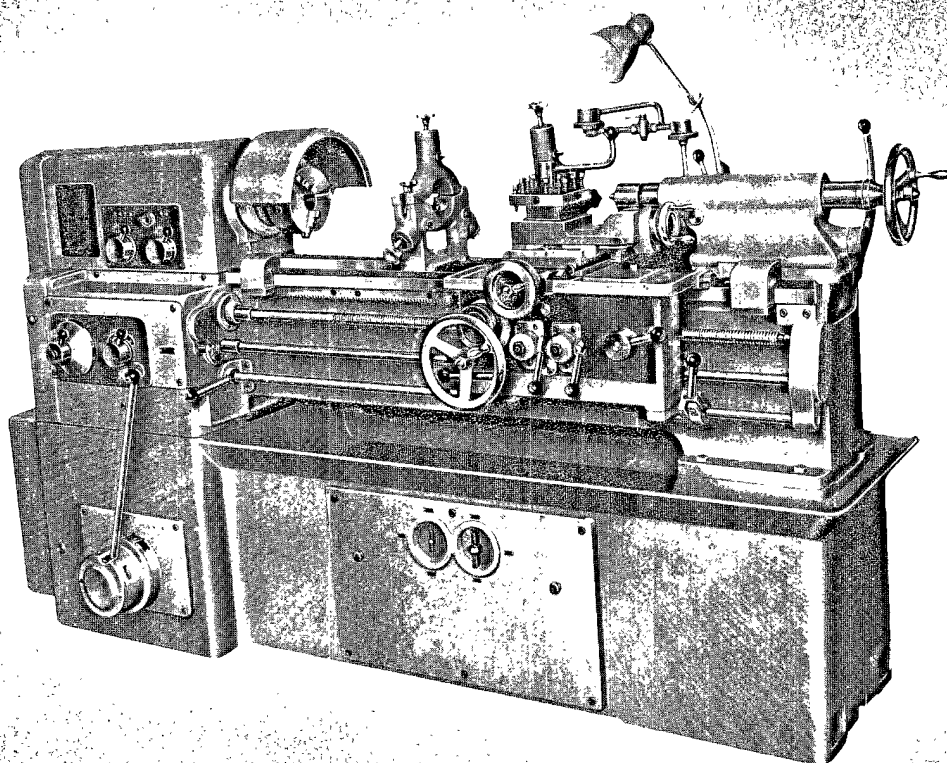
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普通車床 GEARED HEAD LATHE

Model C616



中國機械進口公司
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(IMPORT — EXPORT)
ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA
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GEARED HEAD LATHE

Model C616

This machine is suitable for general lathe work and thread-cutting of different types of threads in Metric, Whitworth, Module, and Diametral pitches. It is also suitable for turning different kinds of workpieces held between centres and by chuck.

The outstanding features of this machine are its rugged construction, higher spindle speed, and simple operation.

The speed of spindle is controlled by means of the headstock gears housed in the machine base and the backgears of headstock; feeding and thread-cutting are adjusted by means of the feed gear box and change gears.

An interlock is provided to prevent simultaneous engagement of lead screw and feed rod.

The machine is fitted with protective unit for safety during high speed operation.

Accessories attached with the machine:—face plate, 3-jaw chuck, centre rest, follow rest, centres, etc.

SPECIFICATION

Centre height	160 mm.
Distance between centres	750 mm.
Max. diameter to be turned:	
Swing over cross slide	175 mm.
Swing over bed ways	320 mm.
Thread cutting:	
Metric, pitch	0.5-9 mm.
Whitworth threads	38-2 t.p.i.
Module	0.5-9
Max. travel of carriage	
(by power and manual):	
Longitudinal	850 mm.
Cross	210 mm.

Distance from tool bottom to centre line of spindle	20 mm.
Max. distance, face of tool holder to centre line	185 mm.
Max. size of tool (W x H)	25 x 20 mm.
Dia. of hole in spindle	30 mm.
Taper hole in spindle	Morse No. 5
Taper hole of centre sleeve in tailstock	Morse No. 4
Max. traverse of centre sleeve in tailstock	95 mm.
Max. cross traverse of tailstock	± 10 mm.
No. of spindle speeds (forward and reverse)	12
Range of spindle speed	44-1980 rpm.
No. of feeds of carriage, longitudinal and cross	140

Range of feed of carriage per revolution of spindle:

Longitudinal	0.06-3.36 mm.
Cross	0.044-2.46 mm.

Motors, A.C., 3 phase.

For main drive:

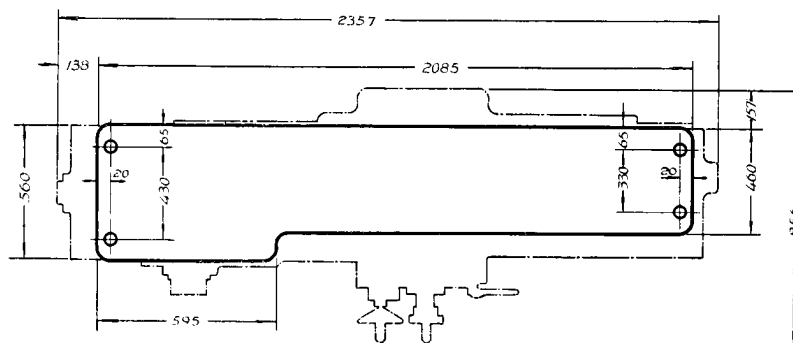
Power	4.3 KW.
Speed	1450 rpm.

For coolant pump:

Power	0.1 KW.
Speed	2800 rpm.

Overall dimension (L x W x H) 2357 x 856 x 1275 mm.

Net weight 1950 kg.

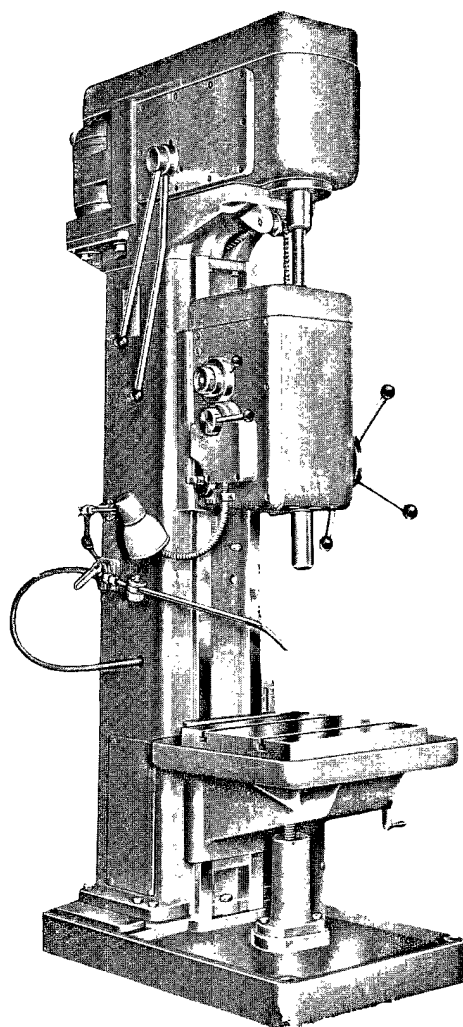


N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

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立式鑽床



Vertical Drilling Machine

MODEL Z 518
Z 535

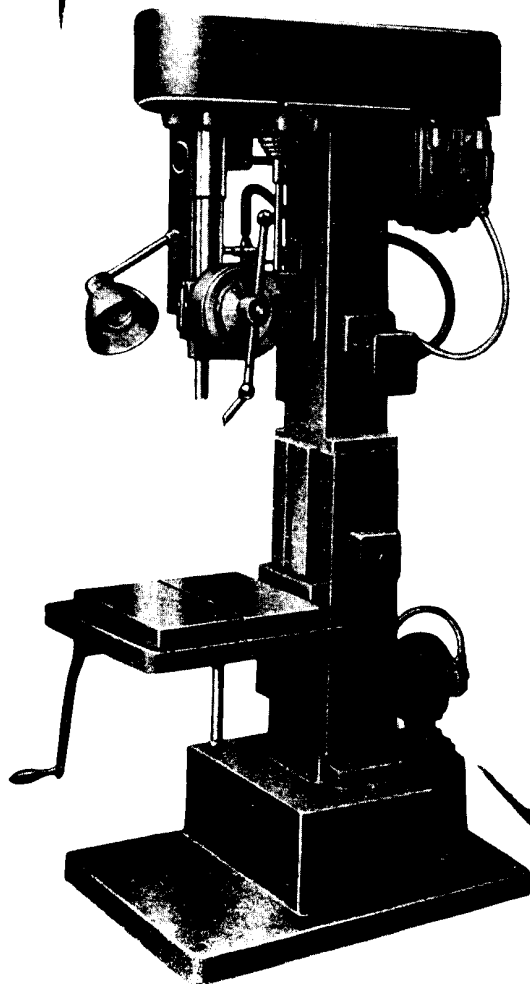
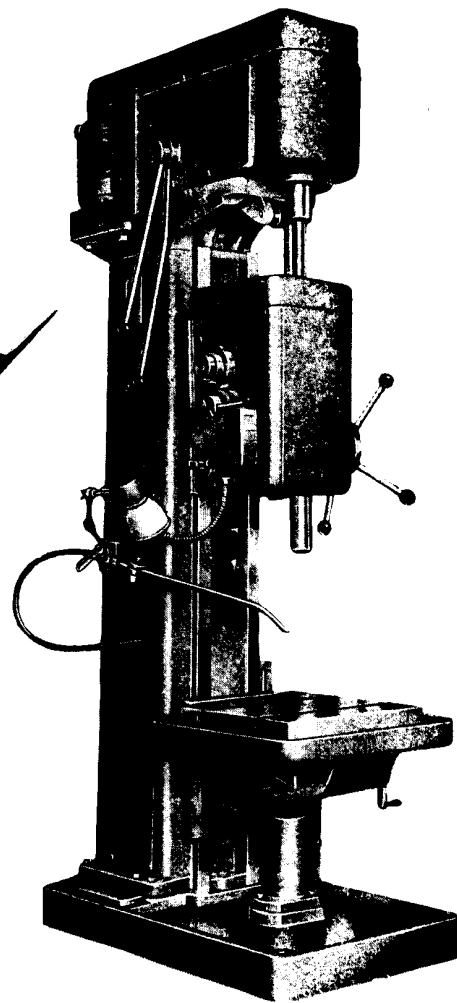
中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

Vertical Drilling Machine

MODEL 2535



MODEL 2518

立 式 鑽 床

VERTICAL DRILLING MACHINE MODEL Z518

This machine is suitable for drilling various kinds of metals such as steel, cast iron, non-ferrous metals, etc.

SPECIFICATION

Capacity:—

Max. diameter of bore in cast iron	....	....	....	18 mm.
Max. diameter of bore in steel	....	....	....	16 mm.

Spindle:—

Max. travel of spindle	....	....	....	....	150 mm.
Taper hole in spindle	....	....	....	....	Morse No. 2
Spindle length outside of sleeve	....	....	....	....	200 mm.

Working table:—

Working surface (L × W)	....	....	....	....	350 × 350 mm.
Vertical travel	....	....	....	....	450 mm.
Distance, spindle nose to table:					

Minimum	....	....	....	....	30 mm.
Maximum	....	....	....	....	650 mm.

Machine mechanism:—

No. of spindle speeds	....	....	....	....	....	....	6
Range of spindle speed	....	....	....	....	....	....	310-2975 rpm.
Feed per revolution of spindle	....	....	....	....	....	....	0.2 mm.

Motor: 3-phase, A.C.

Power	....	....	....	....	....	....	1 KW.
Speed	....	....	....	....	....	....	930 rpm.
Overall dimension (L × W × H):—	....	....	....	....	....	....	900 × 600 × 1720 mm.
Weight	....	....	....	....	....	....	430 kg. approx.

VERTICAL DRILLING MACHINE MODEL Z535

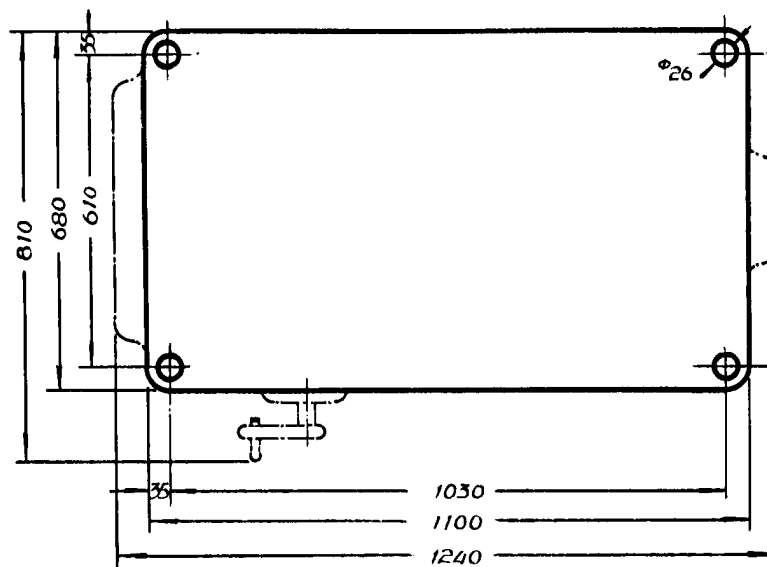
The Z535 Vertical Drilling Machine is designed for drilling, boring and reaming operations on single piece or quantity production work.

SPECIFICATION

Max. drill diameter	....	....	....	....	....	....	....	35 mm.
Max. drill depth	....	....	....	....	....	....	....	225 mm.
Working surface of table (L×W)	....	....	....	....	....	....	....	450×500 mm.
Vertical travel of table	....	....	....	....	....	....	....	380 mm.
Distance, centre of spindle to								
column	....	....	....	....	....	....	....	300 mm.
Max. vertical spindle head adjustment	....	....	....	....	....	....	....	200 mm.
Max. vertical spindle travel	....	....	....	....	....	....	....	225 mm.
Number of spindle speeds	....	....	....	....	....	....	....	12
Range of spindle speed	....	....	....	....	....	....	....	63-1400 rpm.
Number of spindle feeds	....	....	....	....	....	....	....	12
Range of spindle feed	....	....	....	....	....	....	....	0.115-1.6 mm/rev.
Drive, 3 phase, A. C. motor:								
Main drive: Power	....	....	....	....	....	....	....	4.5 KW.
Speed	....	....	....	....	....	....	....	1440 rpm.
Coolant pump: Power	....	....	....	....	....	....	....	0.125 KW.
Speed	....	....	....	....	....	....	....	2800 rpm.
Overall dimension (L×W×H)	....	....	....	....	....	....	....	1300×835×2570 mm.
Net weight	....	....	....	....	....	....	....	1700 kg. approx.

VERTICAL DRILLING MACHINE

MODEL Z 535



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

TIENTSIN OFFICE: 171 Chien Shien Road, (Ho Si District)
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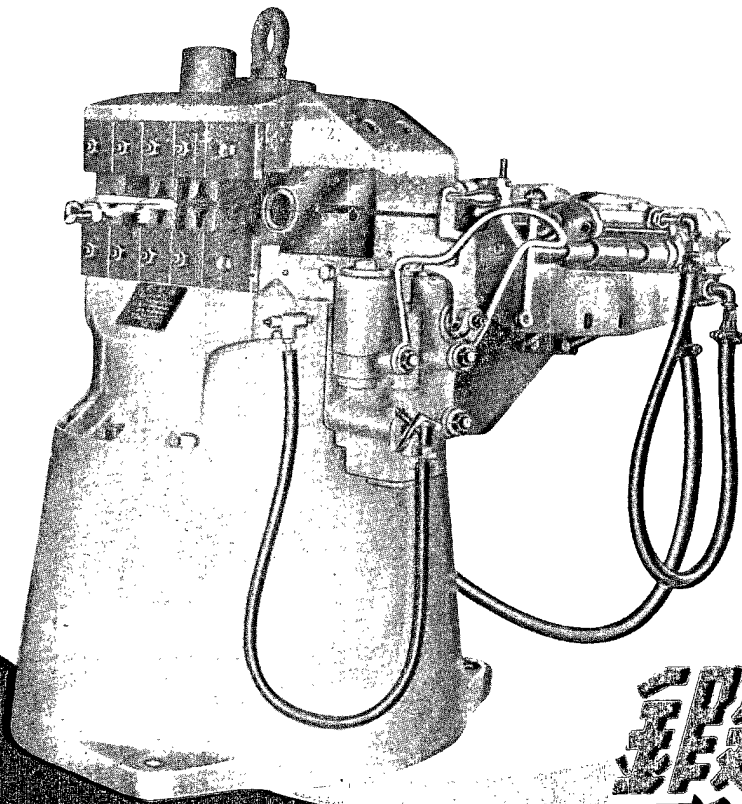
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CANTON OFFICE: No. 2, West Bund Road, Canton
Cable Address: MACHINERY Canton

25X1

DRILL BIT FORGING MACHINE

MODEL 421-90



鍛鑽機

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

DRILL BIT FORGING MACHINE

MODEL 42I-90

The machine is operated by compressed air, for hot forging of round and hexagonal steel bars. The machine is capable of various operations as: hammer forging (horizontal forging of drill bits), impact forging (piercing and enlarging of centre hole), cutting (when the upper forging table descends, the cutting edge cuts off the drill steel), press forging (when the upper forging table descends, it also sharpens the drill bit), etc.

The machine is provided with necessary dies, which can be used for forging drill steel into various forms of drill bits and shanks, as well as for repairing worn-out drill bits.

The machine can be used also in machine-shops. With special forging dies, it can be used for forging different kinds of bolts and rivets from steel bars, (size of bolts not bigger than M 30). We do not supply this kind of forging dies, but they are available if required.

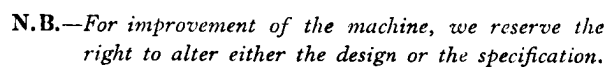
For forging shanks and drill bits, the machine is supplied with the following accessories:—

- 1) One set of forging dies for forging the collar of the drill steel.
- 2) One set of coining punch for forging the collar of the drill steel.
- 3) The coining punch for forging the drill head.
- 4) Die for reconditioning of the shank.
- 5) Needle for piercing and enlarging the centre hole of the drill.

SPECIFICATION

Dimension of drill steel	22 x 25.4 mm.
Dia. of drill bit	90 mm.
Max. dia. of steel bar	50 mm.

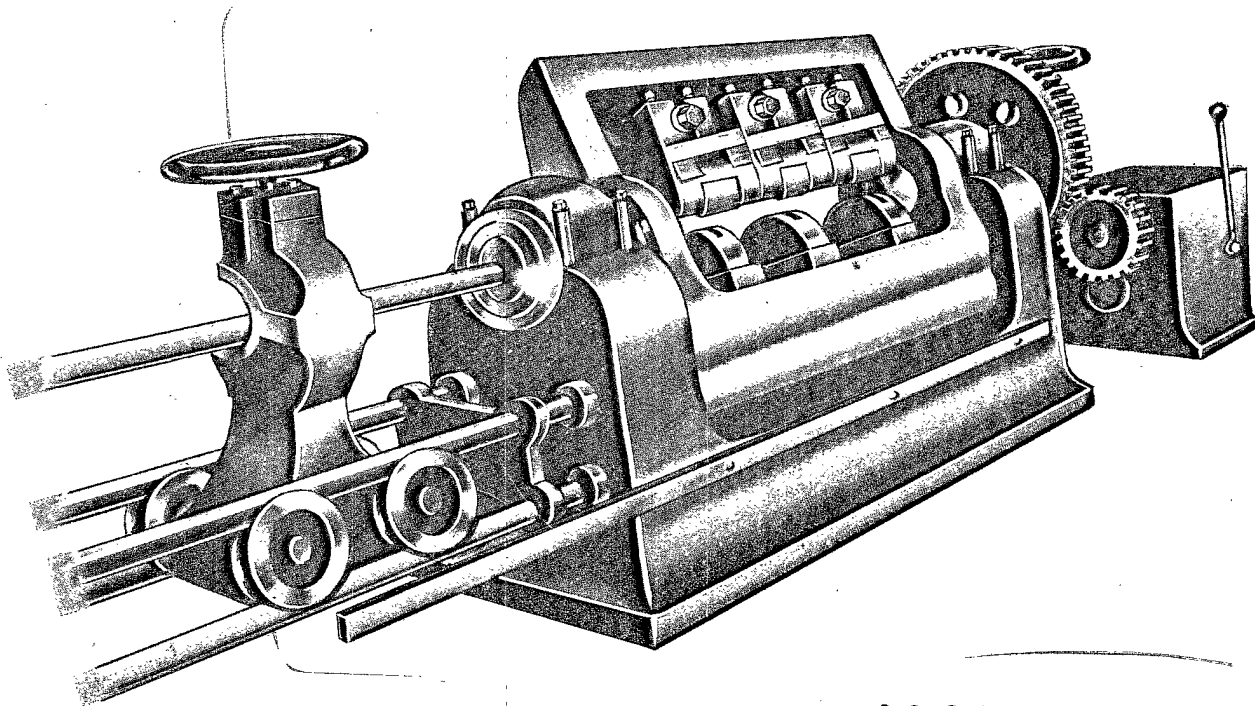
Forging of new drills	60 pcs/hr.
Reconditioning of drills	60—100 pcs/hr.
Forging of shanks	60— 80 pcs/hr.
Dia. of inlet air pipe	32 mm. (1¼")
Air pressure	5—7 kg./cm²
Max. forging and cutting capacity	10,300—14,200 kg.
Air consumption	3.4 m³/min.
Movement of verticle table	90 mm.
Overall dimension (LxWxH)	1550x1085x1480 mm.
Net weight of machine	2740 kg.



BRANCHES

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STRAIGHTENING and POLISHING MACHINE



MODEL Q-88

矯 正 輥 光 機

中 國 機 械 進 口 公 司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

STRAIGHTENING AND POLISHING MACHINE

MODEL Q - 88.

This machine is used for straightening and polishing all kinds of steel bars, shafts, and seamless steel pipes, except cold drawn bars for auto-machines and steel bars of lower elongation than 13%.

Work should be turned roughly before being polished; the same rule, however, does not apply to work which needs only straightening. Polishing and straightening is accompanied by passing work along axial direction between rollers rotating around the centre line of work.

The speed of straightening is controlled by means of a gear box. The friction between work and rollers on the frame of straightening mechanism actuates the axial feed of work. The rate of feed is adjusted by swivelling the rollers to the centre line of work, and the direction of feed can be reversed by reversing the rotation of frame of the straightening mechanism.

The machine is provided with guide trucks.

Diameter of workpiece :

Minimum	25 mm.
Maximum	80 mm.

Max. length of workpiece 7000 mm.

No. of rollers on straightening mechanism:

Feed rollers	2
Straightening rollers	4

Swivel of clamping rollers:

Minimum	15°
Maximum	25°

Guiding trucks 2

Diameter of workpiece clamped on guide truck:

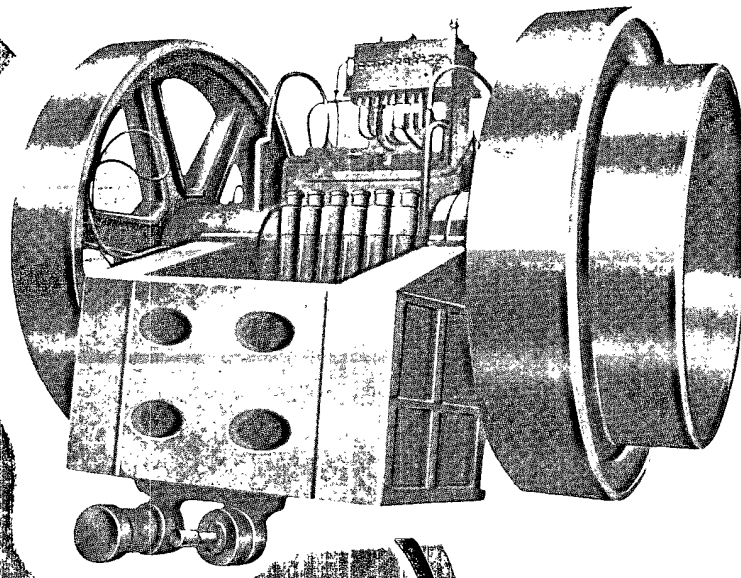
Minimum	25 mm.
Maximum	80 mm

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JAW ROLLER CRUSHER

顎
輥 式 破 碎 机



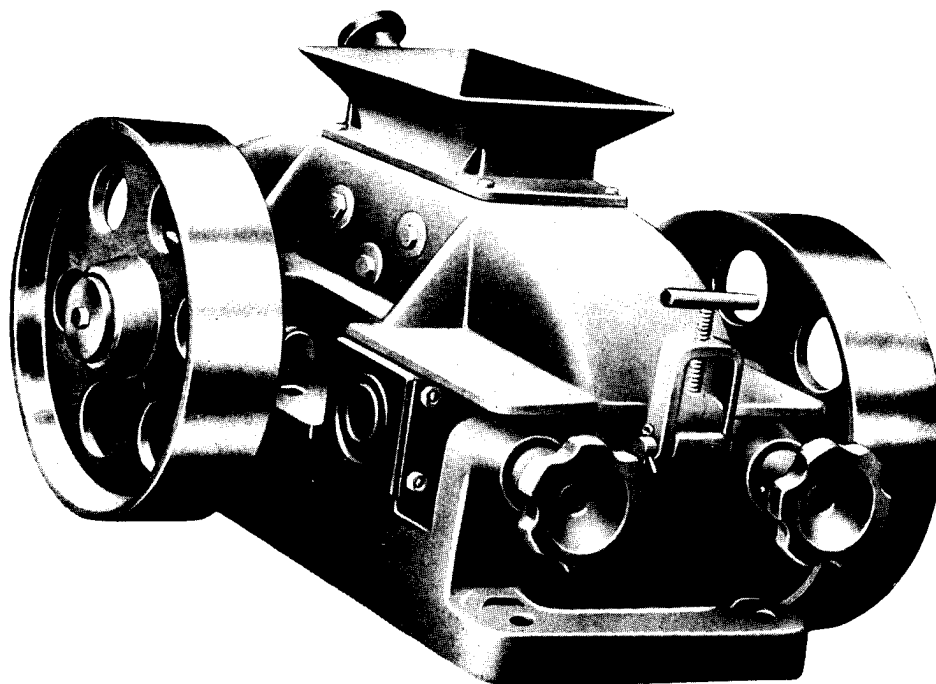
中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

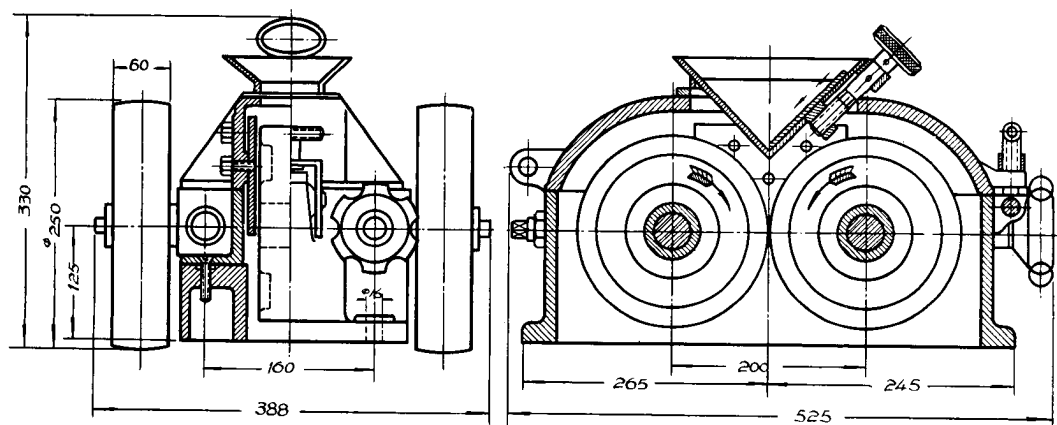
(IMPORT-EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING



Model 422—200×75



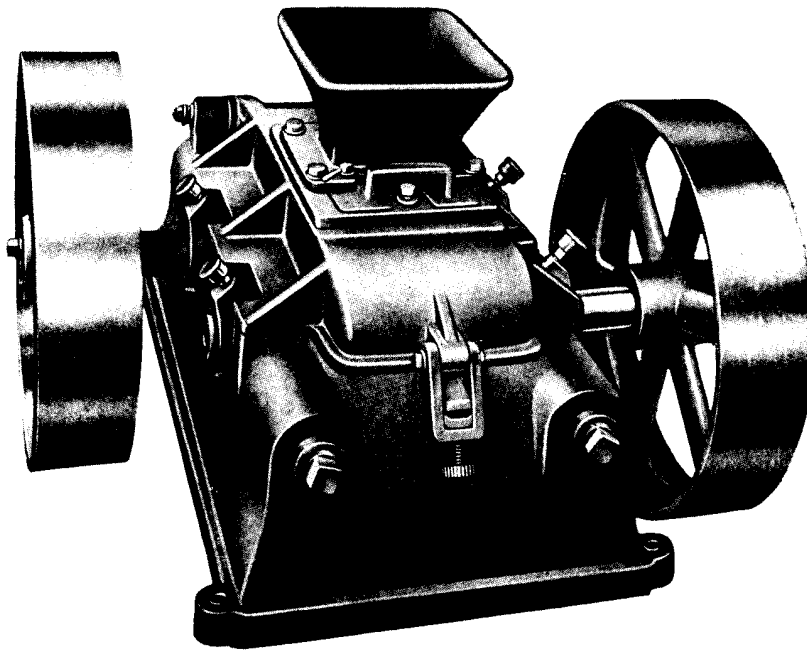
ROLLER CRUSHER (200×75 mm.)**Model 422—200×75**

This crusher is used in laboratories for fine crushing of ores, refractory materials, and fluorspar.

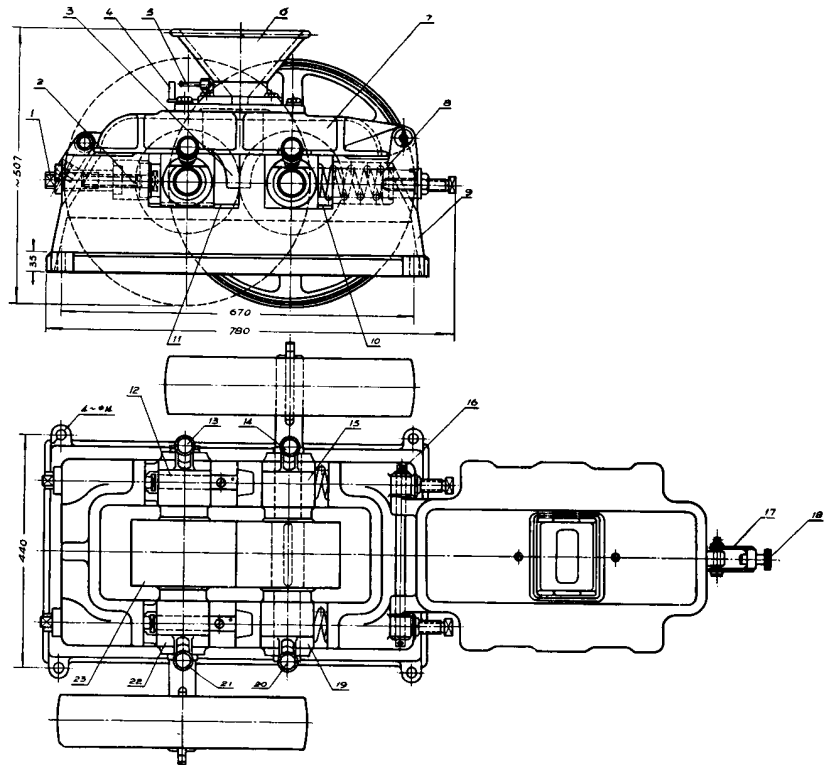
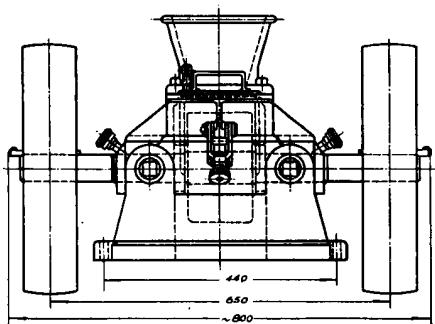
The body of the crusher is made of globular cast iron, and is very durable. The fineness of crushing is adjustable as required. The machine is light and can be easily handled. It has a suitable working capacity and is highly efficient.

SPECIFICATION

Type	...	...	...	...	...	...	...	...	...	Roller type
Crushing capacity	...	...	...	...	...	...	...	...	...	860 kg./hr.
Material to be crushed	...	...	...	...	...	...	...	...	...	Max. 10 mm.
Material after being crushed	...	...	...	...	...	...	...	...	...	Max. 4 mm.
Roller speed	...	...	...	...	...	...	...	...	...	400 rpm.
Belt pulley	...	...	...	...	...	...	...	...	φ 250 × 60 mm.	
Motor: Power	...	...	...	...	...	...	...	...	...	1 KW.
Speed	...	...	...	...	...	...	...	...	...	1420 rpm.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	...	...	525 × 388 × 300 mm.
Weight	...	...	...	...	...	...	...	...	...	101 kg.



Model 422—200×125



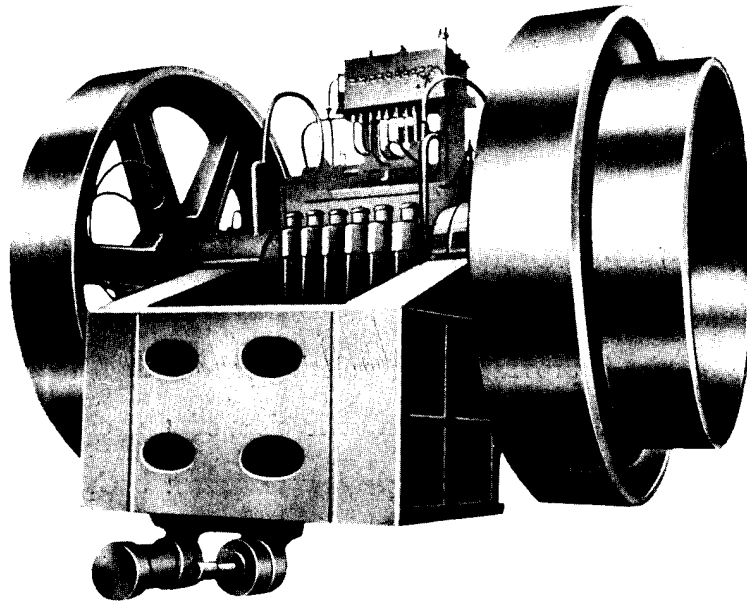
ROLLER CRUSHER (200×125 mm.)**Model 422—200×125**

This machine crushes uniformly materials of medium hardness such as ores, coal, coke, etc., in sizes regulated through adjustment of space between the rollers. It is also suitable for laboratory purposes.

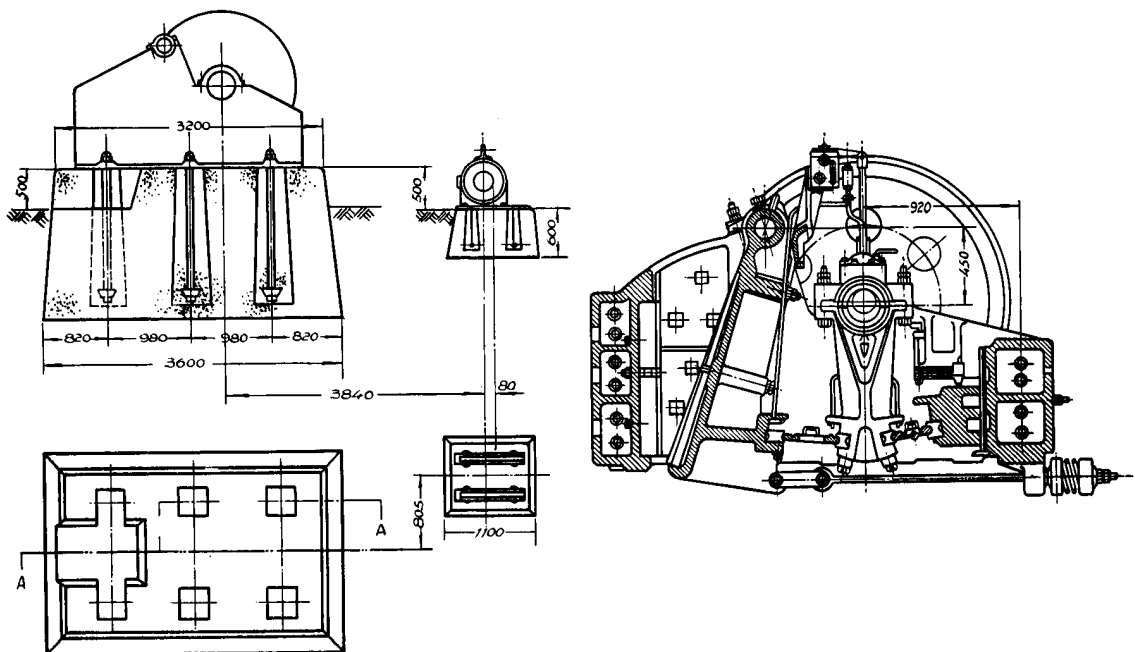
Two high carbon steel rollers, revolving towards each other, reduce whatever material that comes down from the funnel installed atop the machine cover.

SPECIFICATION

Crushing capacity	...	...	...	...	...	...	...	1500 kg./hr.
Size of rollers	...	...	...	...	...	...	φ	200 × 125 mm.
Material to be crushed	...	...	...	...	...	...	...	Max. 10 mm.
Material after being crushed	...	...	...	...	...	...	...	Max. 4 mm.
Roller speed	...	...	...	...	...	...	...	300 rpm.
Belt pulley	...	...	...	...	...	...	φ	460 × 105 mm.
Motor	...	...	...	...	...	...	...	2.8 KW.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	780 × 800 × 507 mm.
Weight including motor	...	...	...	...	...	...	...	520 kg.



Model 111—750×450

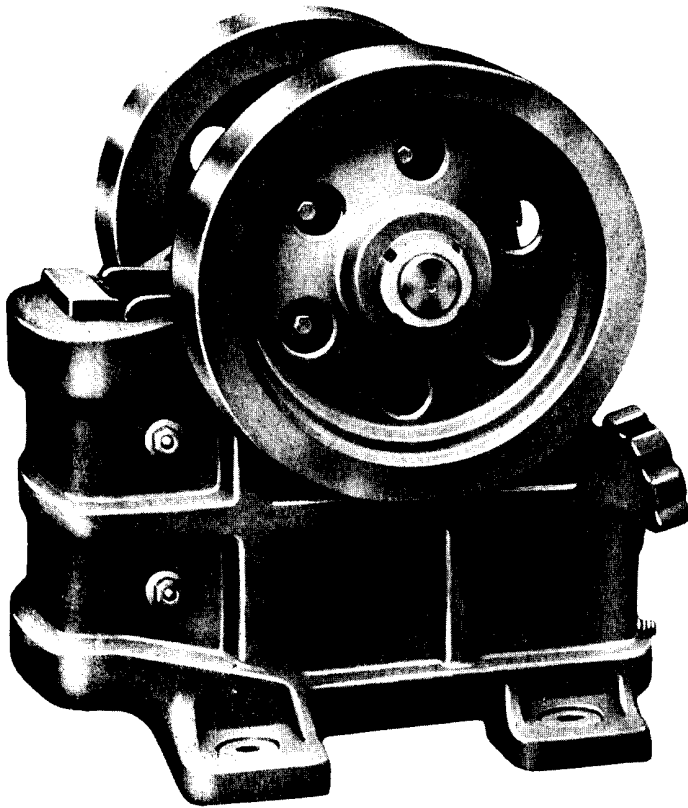


JAW CRUSHER (750×450 mm.)**Model 111—750×450**

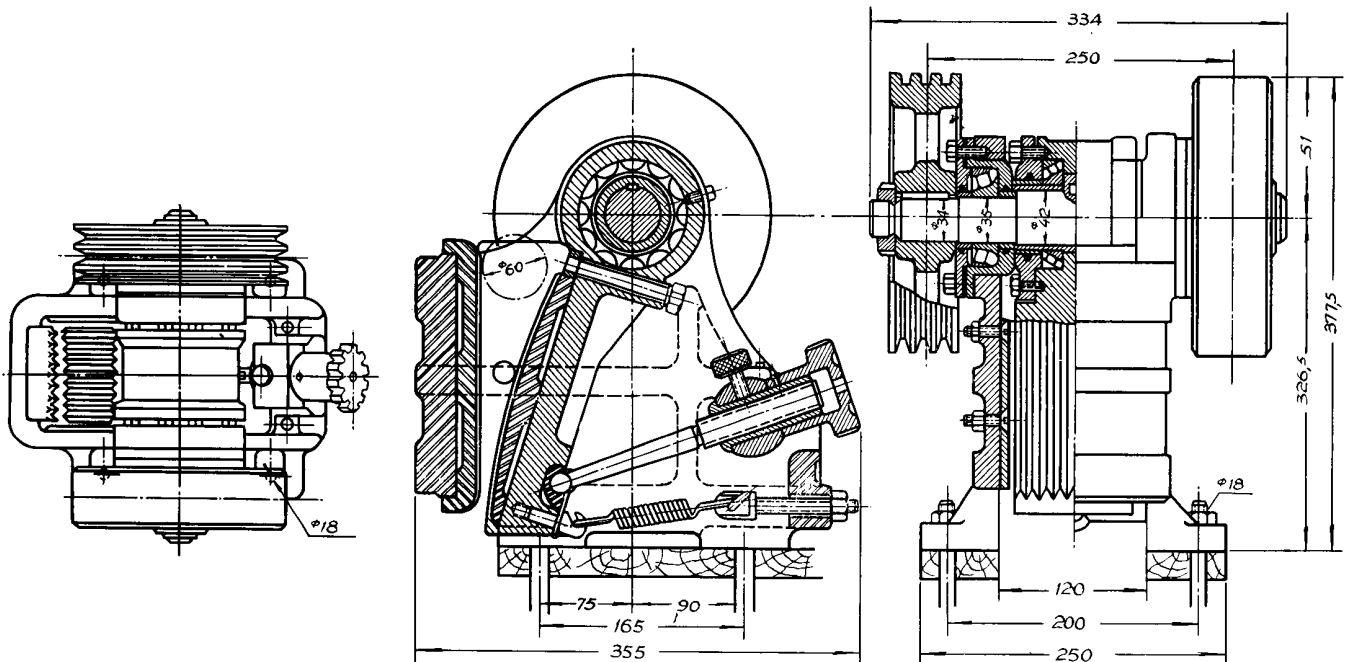
This crusher is used for coarse crushing of minerals. The principal working parts are two crushing jaw plates, one of which is fixed while the other is movable. The upper portion of the movable jaw is locked and the lower portion swings. A regulating device is provided for regulating the width of the discharge opening as required. There is one flywheel on each side of the crusher; one of them serves also as a belt pulley. The movable jaw is drawn back by action of spring attached to its lower part. On both sides of the jaw, plates are provided to protect the frame of crusher.

SPECIFICATION

Feed opening	...	...	...	...	...	...	...	750 × 450 mm.
Minerals to be crushed	...	...	...	...	...	...	...	Max. 315 mm.
Width of discharge opening	...	...	...	...	...	...	...	63—100 mm.
Capacity:								
When discharge opening is 63 mm.	...	...	...	...	...	...	...	35 tons/hr.
When discharge opening is 100 mm.	...	...	...	...	...	...	...	45 tons/hr.
Main shaft speed	...	...	...	...	...	...	...	250 rpm.
Driving pulley (dia. × W)	...	...	...	...	...	...	...	1400 × 300 mm.
Motor:								
Power	...	...	...	...	...	...	...	32 KW.
Speed	...	...	...	...	...	...	...	980 rpm.
Overall dimension (L × W × H)	...	2750	×	2660	×	1905	mm.	
Net weight	...	...	...	...	...	...	...	15000 kg. approx.



Model 112—100×60



JAW CRUSHER (100 × 60 mm.)**Model 112—100 × 60**

This Jaw Crusher is used in laboratories for coarse crushing of ores, refractory materials and fluorspar, and is mounted on a rigid working platform.

The crusher is eccentric driven, lower end pivot type. The discharge opening is adjustable. All running parts are equipped with thrust roller bearings. Three pieces of A type V-belts are used for transmission. The flywheel is mounted at the other end of the main shaft.

SPECIFICATION

Feed opening	...	...	...	...	...	...	...	100 × 60 mm.
Materials to be crushed	...	...	...	...	...	...	...	Max. 60 mm.
Width of discharge opening	...	...	...	...	...	...	...	6-10 mm.
Capacity:—								
When discharge opening								
is 6 mm.	...	...	...	...	...	...	...	230 kg./hr.
When discharge opening								
is 10 mm.	...	...	...	...	...	...	...	400 kg./hr.
Main shaft speed	...	...	...	...	...	...	...	500-650rpm.
Pulley diameter	...	...	...	...	...	...	...	217 mm.
Motor: Power	...	...	...	...	...	...	...	1.4 KW.
Speed	...	...	...	...	...	...	...	1450 rpm.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	335 × 334 × 377.5 mm.
Net weight (excluding motor)	...	...	...	...	...	...	...	125 kg.
Motor weight	...	...	...	...	...	...	...	40 kg.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

B R A N C H E S

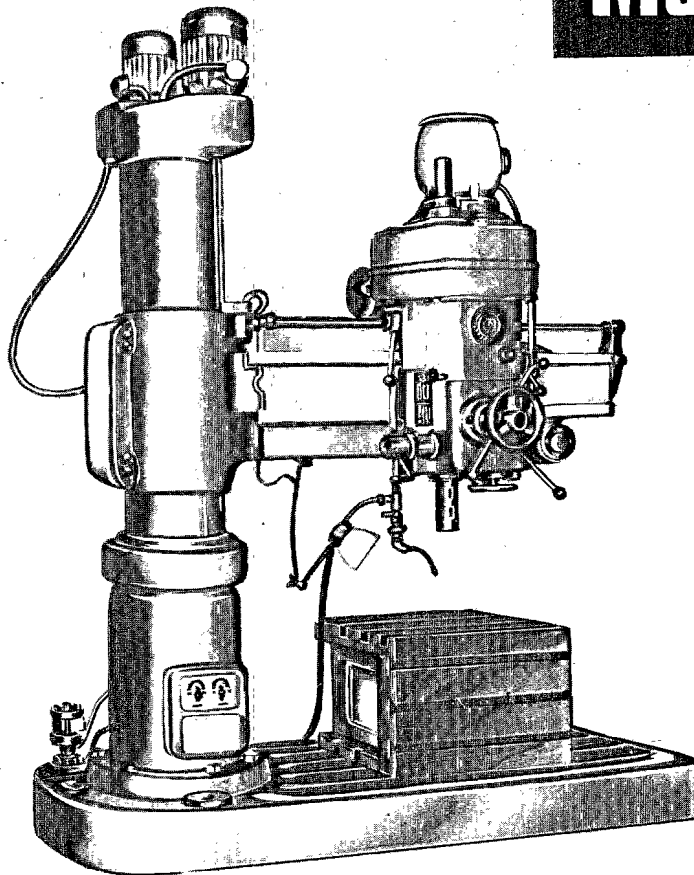
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Cable Address: MACHINERY Canton

Radial Drilling Machine

Model Z35



旋臂鑽床

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA CABLE ADD: MACHIMPORT PEKING

RADIAL DRILLING MACHINE MODEL Z35

This machine is used for drilling, counter sinking, reaming, boring and tapping.

Spindle speed and feed are controlled respectively by the gear box and the feed box. Rotation of the spindle can be reversed by reversing the rotation of the motor. The spindle feed is operated by power and its rapid traverse by hand.

A single motor is used for the automatic lifting of the arm.

Clamping and release of arm on vertical column and that of spindle head on arm are accomplished by hydraulically controlled devices. The spindle head can also be clamped by hand. The swivel of arm around column and the horizontal traverse of spindle head along guide way of arm are rendered by hand.

The machine is provided with 4 motors.

Max. drilling diameter	50 mm.
------------------------	--------

Distance, centre line of spindle to column:

Minimum	450 mm.
Maximum	1500 mm.

Distance, spindle nose to working table:

Minimum	0 mm.
Maximum	1000 mm.

Distance, spindle nose to baseplate:

Minimum	470 mm.
Maximum	1500 mm.

Taper hole of spindle	Morse No. 5
Max. traverse of spindle	350 mm.
Max. traverse of spindle head on arm	1050 mm.
Max. traverse of arm on column	680 mm.
Max swivel of arm	360°
No. of spindle speeds	18

Range of spingle speeds:

Forward	30-1500 rpm.
Reverse	34-1700 rpm.

No. of spindle feeds	18
Range of feed per spindle revolution	0.03-1.2 mm.

Motors: 3-phase, A.C.

for driving spindle:	Power	4.5 KW.
	Speed	1500 rpm.

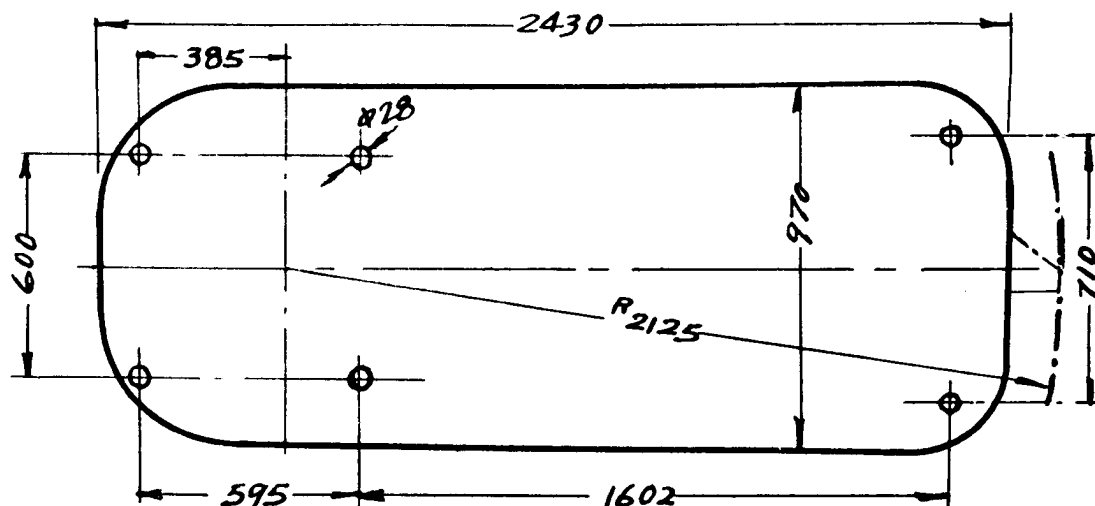
for lifting arm:	Power	1.7 KW.
	Speed	1500 rpm.

for clamping arm:	Power	0.6 KW.
	Speed	1500 rpm.

for coolant pump:	Power	0.125 KW.
	Speed	2800 rpm.

Overall dimension (LxWxH) 2610x970x3000 mm.

Net weight 4300 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

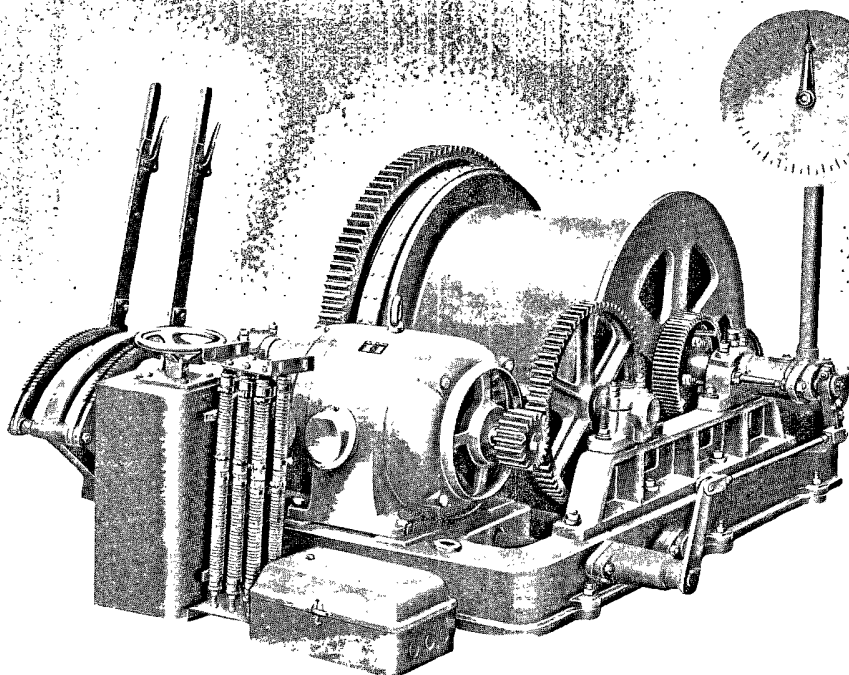
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單筒捲揚機

SINGLE DRUM HOISTING MACHINE



中國機械進口公司

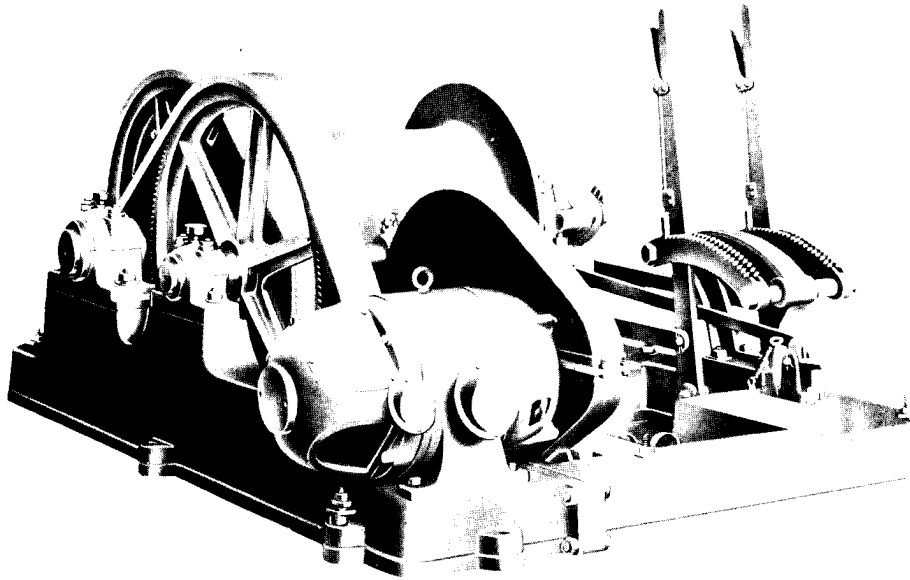
CHINA NATIONAL MACHINERY IMPORT CORPORATION

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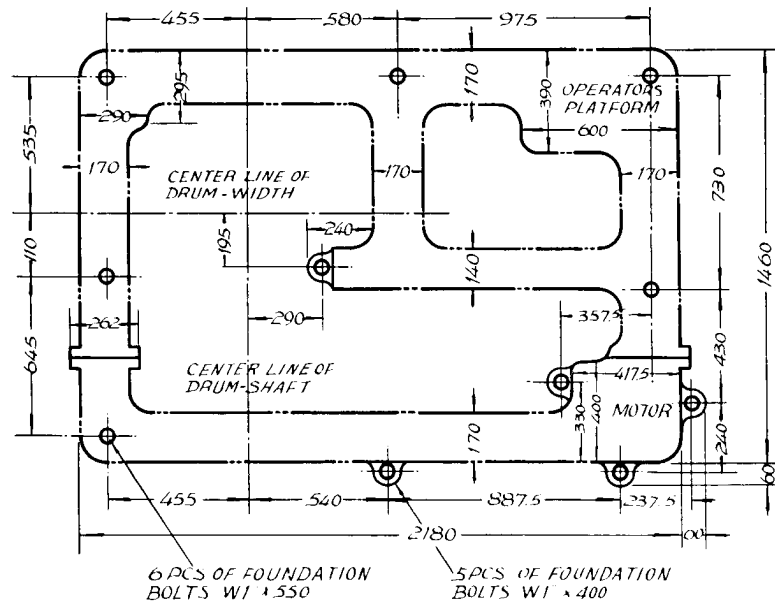
ER-LI-KOW. HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

Model 222-1500



10 H.P.



SINGLE DRUM HOISTING MACHINE (10 H.P.)

Model 222—1500

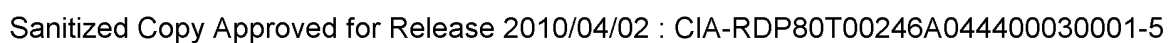
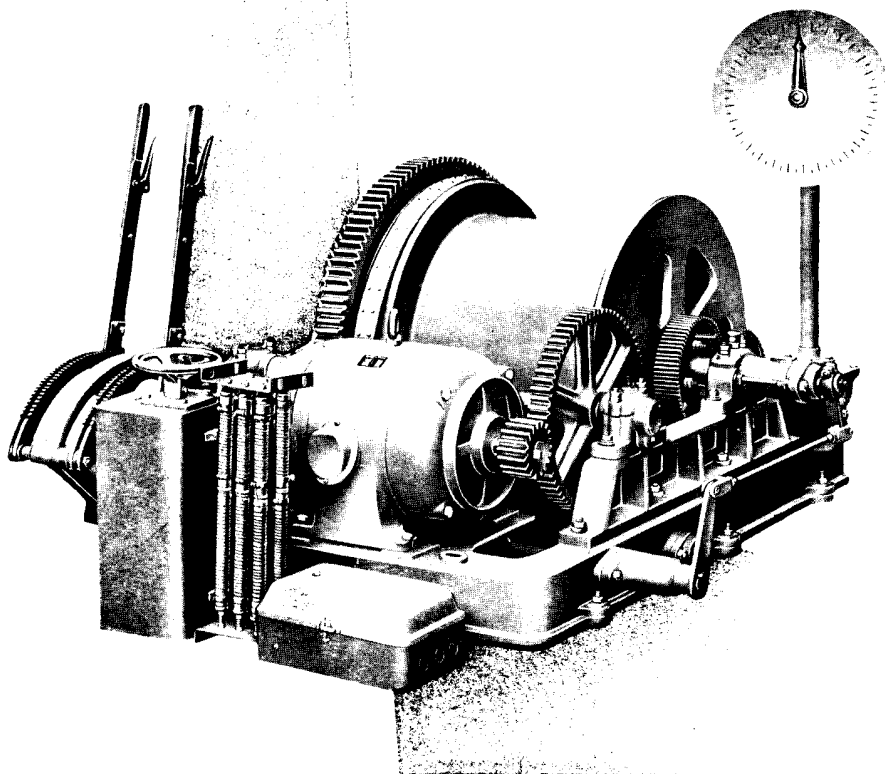
This Hoisting Machine is of the single drum type, main shaft is driven by an electric motor through three stage reduction gearing. The drum is loose fitted on the main shaft, and through couplement by means of a hand operated hard wood conical friction clutch with the transmission gears, it revolves and lifts the load,

The machine is equipped with hand-operated band brake and foot-operated ratchet wheel to control the hoisting work.

The electric motor and its electric controlling equipment will be supplied with the machine in complete set.

SPECIFICATION

Hoisting capacity	...	...	...	...	...	...	...	1500 kg.
Hoisting speed	...	...	...	...	...	...	...	0.36 m/sec.
Drum: Diameter	...	...	...	...	...	...	...	540 mm.
Dia. of flange	...	...	...	...	...	...	...	800 mm.
Width	...	...	...	...	...	...	...	600 mm.
Height of drum shaft centre line								
above ground	...	...	...	...	...	...	...	460 mm.
Speed ratio	...	...	...	...	...	...	...	1 : 119.44
Steel wire rope: Diameter	...	...	...	...	...	...	( 6 × 19)	16 mm.
Length	...	...	...	...	...	...	...	250 m.
Motor	...	...	...	...	...	...	A. C., 3-phase, 50 cycles, 380 V., drip-proof, slip-ring, 7.5 KW., 4-poles.	
Overall dimension (L × W × H)	...	...	...	...	...	...	2286 × 1677 × 1160	mm.
Weight	...	...	...	...	...	...	...	2500 kg.



SINGLE DRUM HOISTING MACHINE (20 H. P.)

Model 222—900

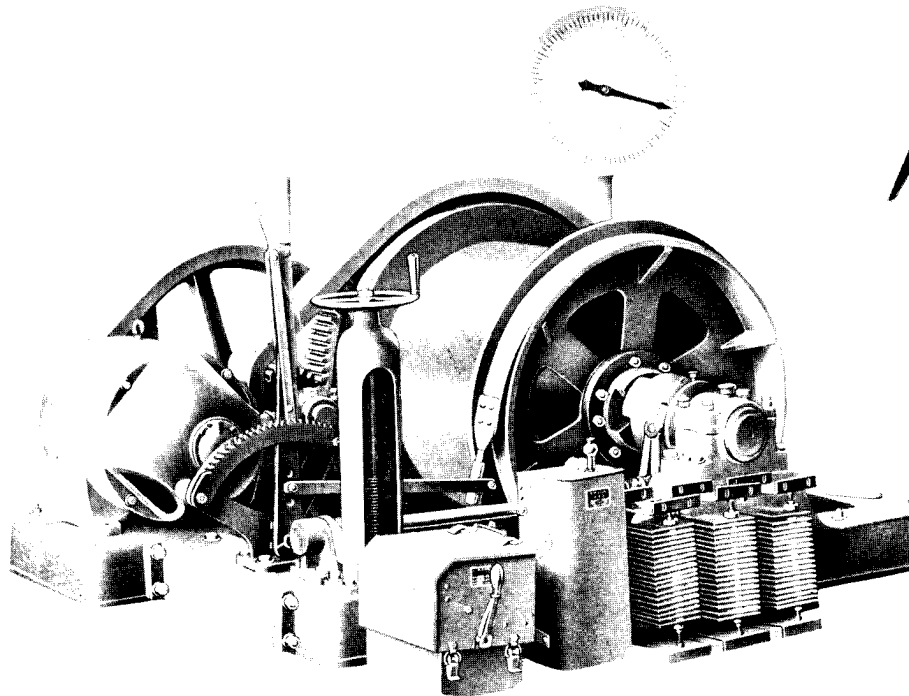
This Hoisting Machine is of the single drum type; its main shaft is driven by an electric motor through two stage speed reduction gearing. The drum is loose fitted on the main shaft, and through couplement by means of a hand-operated hardwood conical friction clutch with the transmission gears, it revolves to lift load.

The electric motor and its electric controlling equipment will be supplied with the machine in complete set.

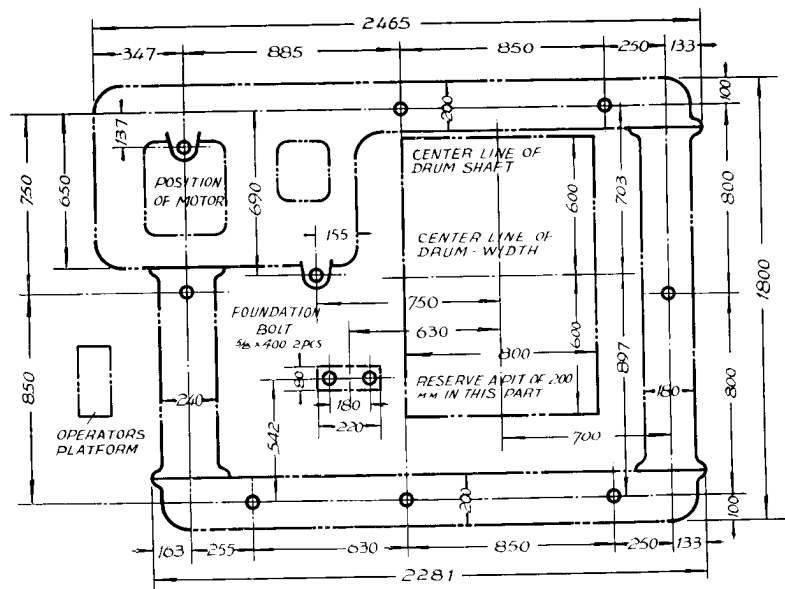
SPECIFICATION

Hoisting capacity	...	...	...	...	...	...	...	900 kg.
Hoisting speed	...	...	...	...	...	...	...	1.25 m/sec.
Drum: Diameter	...	...	...	...	...	...	...	760 mm.
Dia. of flange	...	...	...	...	...	...	...	965 mm.
Width	...	...	...	...	...	...	...	600 mm.
Height of drum shaft centre line								
above ground	...	...	...	...	...	...	...	430 mm.
Speed ratio	...	...	...	...	...	...	...	1:32
Steel wire rope length	...	...	...	...	...	...	...	300 m.
Motor	...	...	...	...	...	...	...	A. C., 3-phase, 50 cycles, 380 V., drip-proof, slip-ring, 15 KW., 6-poles.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	1900 × 1598 × 1420 mm.
Weight	...	...	...	...	...	...	...	2200 kg.

Model 222-1360



30 H.P.



10 PCS. OF FOUNDATION BOLTS 1\"/>

SINGLE DRUM HOISTING MACHINE (30 H.P.)**Model 222—1360**

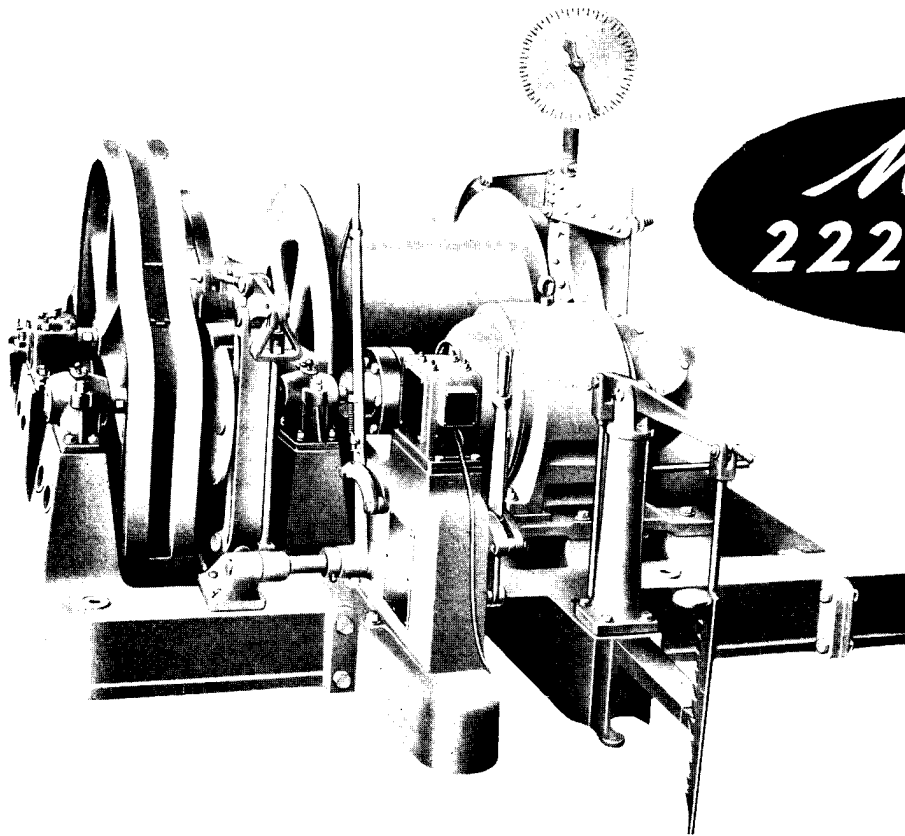
This Hoisting Machine is of the single drum type. The main shaft is driven by an electric motor through two stage reduction gearing. By means of clutch coupling, the hoist drum can be coupled with the main driving shaft, and lifts the load.

The machine is equipped with hand-operated band brake to control the hoisting work, a dial indicator is provided to show the position of the loads.

The electric motor and its electric controlling equipment will be supplied with the machine in complete set.

SPECIFICATION

Hoisting capacity	... ..	1360 kg.
Hoisting speed	... ..	1.26 m/sec.
Drum: Diameter	... ..	915 mm.
Dia. of flange	... ..	1170 mm.
Width	... ..	760 mm.
Height of drum shaft centre line		
above ground	... ..	500 mm.
Speed ratio	... ..	1 : 29.55
Steel wire rope: Diameter	... ..	16 mm. (6 × 19)
Length	... ..	450 m.
Motor	... ..	A. C., 3-phase, 50 cycles, 380 V., 23 K. W., 8 poles, drip-proof, squirrel-cage type.
Dimension (L × W × H)	... ..	2465 × 2020 × 1720 mm.
Weight	... ..	2700 kg.

75 H.P.

Model.
222-2000

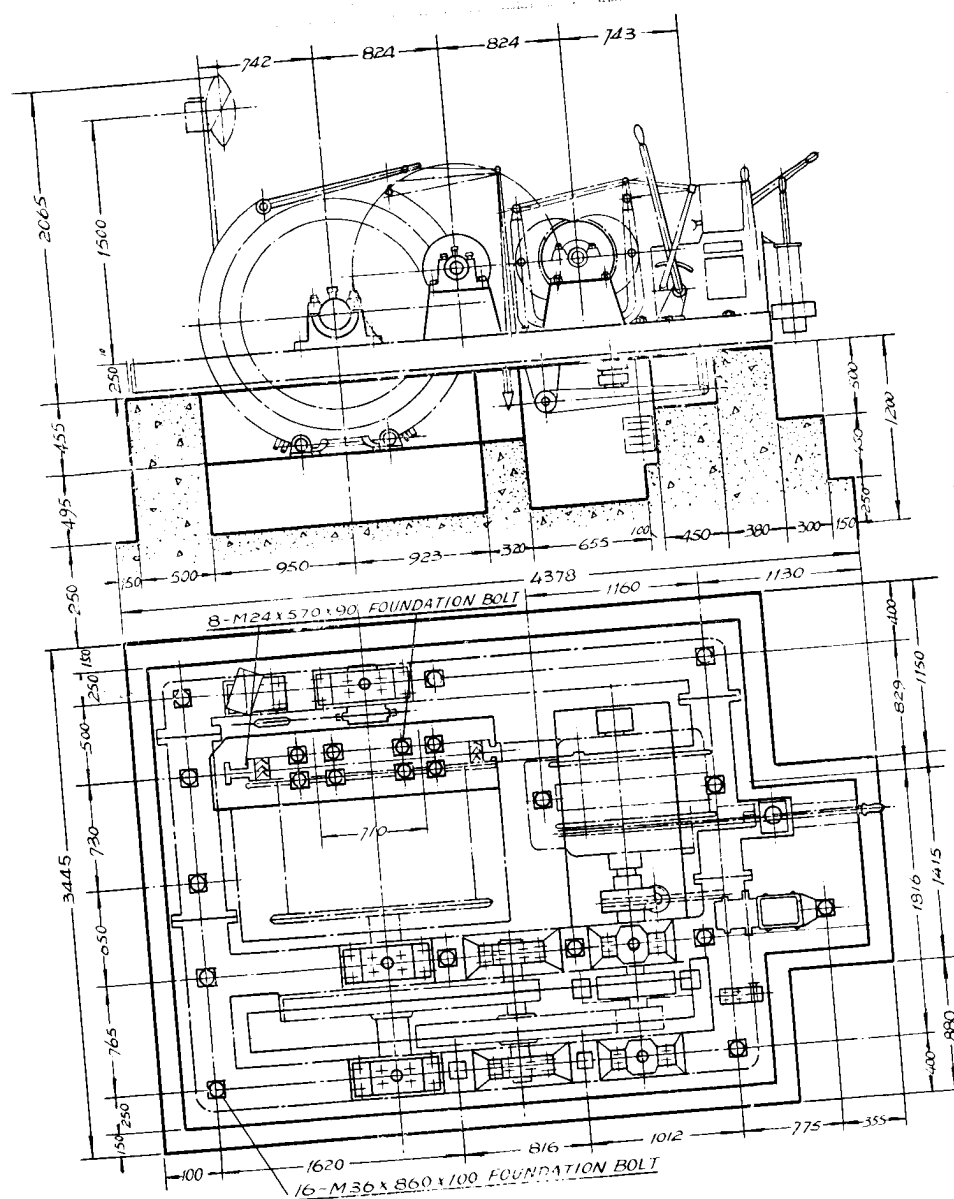
This Hoisting Machine is used for general hoisting service in mines.

The machine is provided with a depth indicator, which will indicate the position of the load at any time. A foot brake and an electric brake are also installed. In case of emergency, it will stop automatically.

The electric motor and its electric controlling equipment will be supplied with the machine in complete set.

SPECIFICATION

Hoisting capacity	...	...	...	...	...	...	...	...	2000 kg.
Hoisting speed	...	...	...	...	...	...	...	...	130 m/min.
Hoisting height	...	...	...	...	...	...	...	...	960 m.
Drum: Diameter	...	...	...	...	...	...	...	...	1220 mm.
Width	...	...	...	...	...	...	...	...	915 mm.
Steel wire rope	...	...	...	...	980 m.	(6 × 19 + 1—20—160)	...	...
Electric motor: Power	...	...	...	...	...	...	...	...	55 KW.
Type	...	...	...	...	...	...	...	...	AK-92-8-55
Speed	...	...	...	...	...	...	...	...	750 rpm.
Voltage	...	...	...	...	...	...	...	...	220/380 v.
Frequency	...	...	...	...	...	...	...	...	50 cycles
Overall dimension (L × W × H)	...	...	...	...	...	4748 × 3065 × 2065 mm.	...	...
Weight	...	...	...	...	...	...	...	...	8000 kg.



N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

BRANCHES

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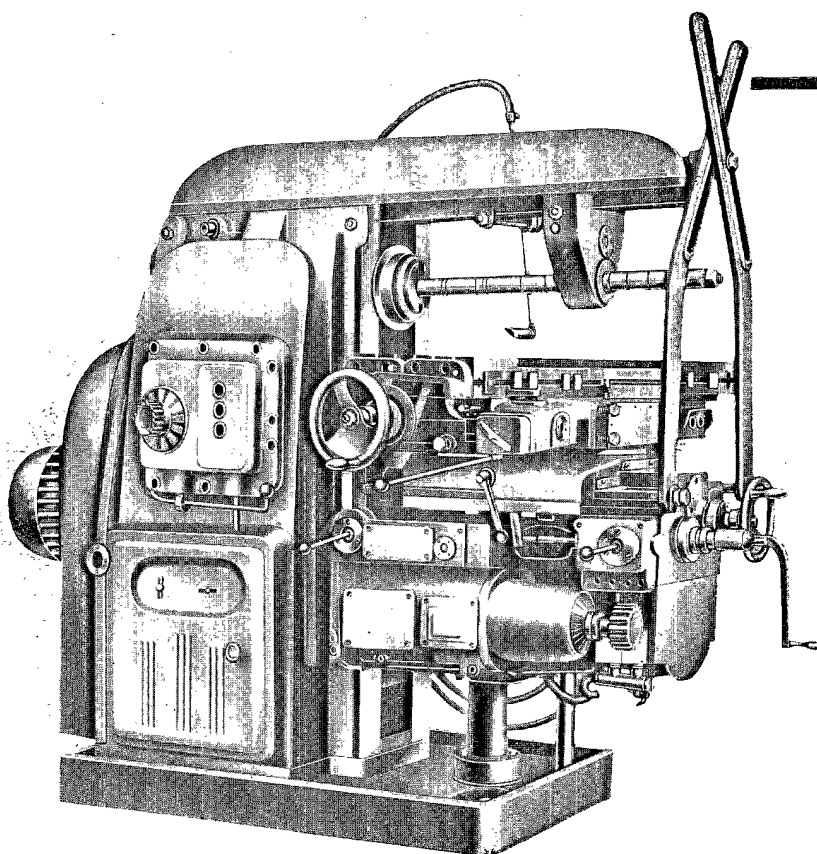
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Cable Address: MACHIMPORT Shanghai

CANTON OFFICE: No. 2, West Bund Road, Canton
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萬能銑床

Universal
Milling Machine

Model
X61W
X62W



中國機械進口公司

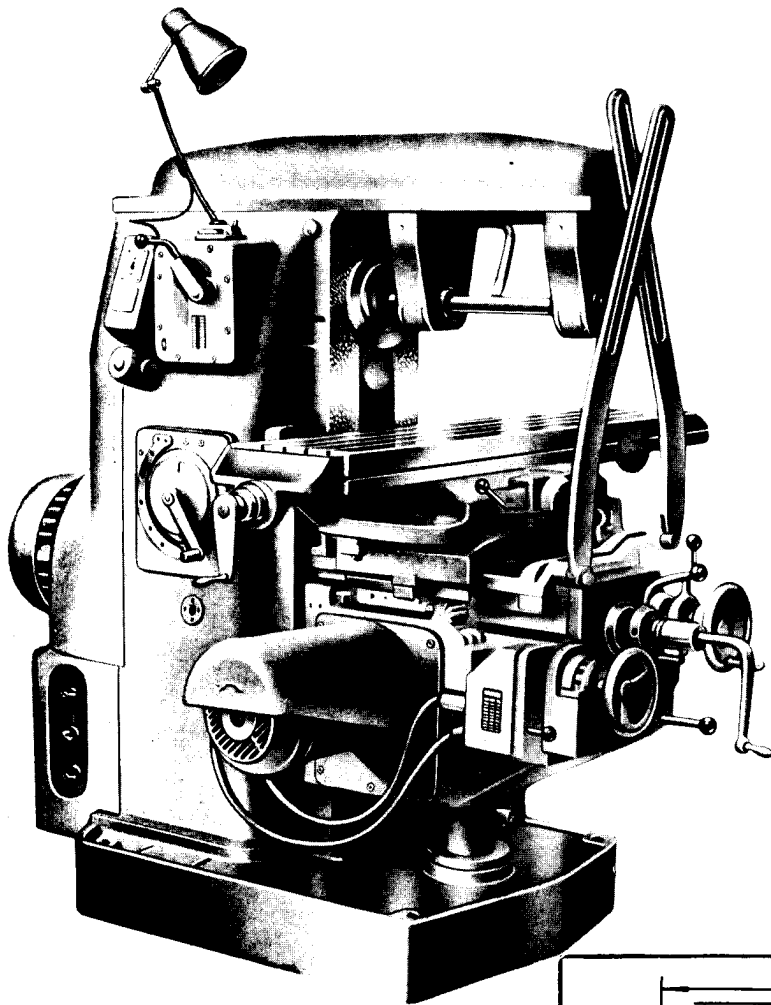
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(IMPORT — EXPORT)

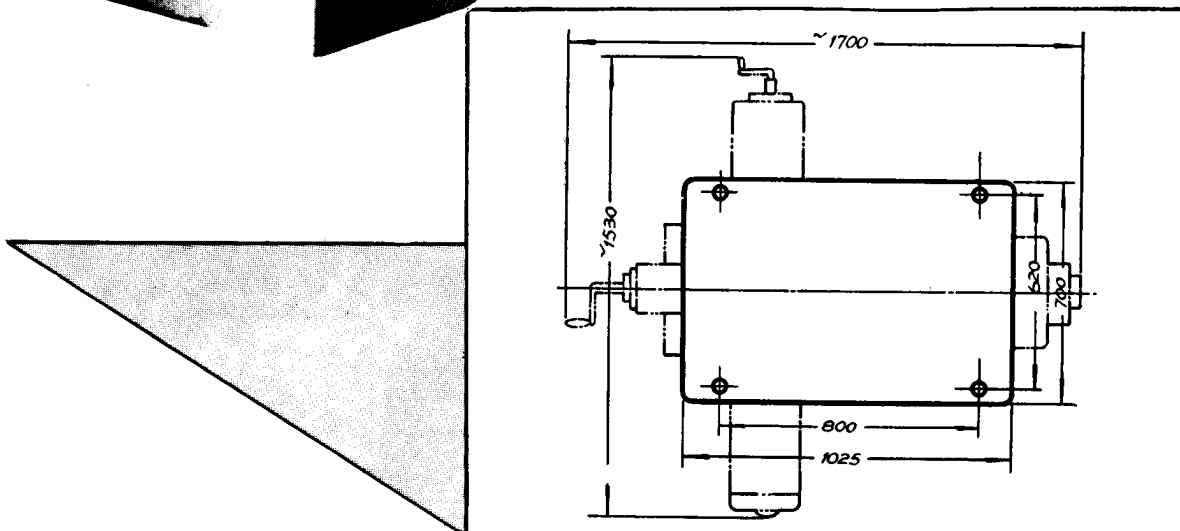
ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

Universal Milling Machine



Model X6IW



UNIVERSAL MILLING MACHINE

Model × 61W

This machine is designed for milling various workpieces, using cylindrical cutters, disc cutters, angle cutters, or forming cutters.

The employment of the universal dividing head increases the variety of work that may be assigned to the machine including spur, helical gears, and helixes.

The spindle and the table are driven by individual motors.

The table can make normal and rapid traverse in all three directions (longitudinal, cross, and vertical).

The working table operates in an automatic cycle, continuous or intermittent, to the longitudinal movement of the table.

The normal movement of table is driven by mechanical system controlled by a hand lever.

The machine, being equipped with ample power and rigid construction, is capable of high speed cutting.

SPECIFICATION

Distance between centre of spindle

and table:—

Minimum 0 mm.

Maximum 350 mm.

Distance between centre of spindle

and overarm 150 mm.

Working surface of table (L × W) 1000 × 250 mm.

Max. table travel:—

Longitudinal 650 mm.

Cross 200 mm.

Vertical 350 mm.

Table swivel (max.) ± 45°

Number of spindle speeds 16

Range of spindle speed 65-1800 rpm.

Number of longitudinal, cross and

vertical feeds: 16 each

Range of feeds:—

Longitudinal 27-815 mm/min.

Cross 20-630 mm/min.

Vertical 10-310 mm/min.

Motors:- 3-phase, A.C.

Power 3.2 KW.

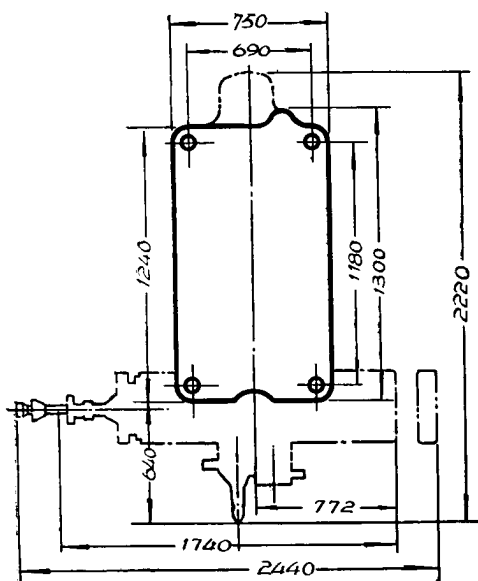
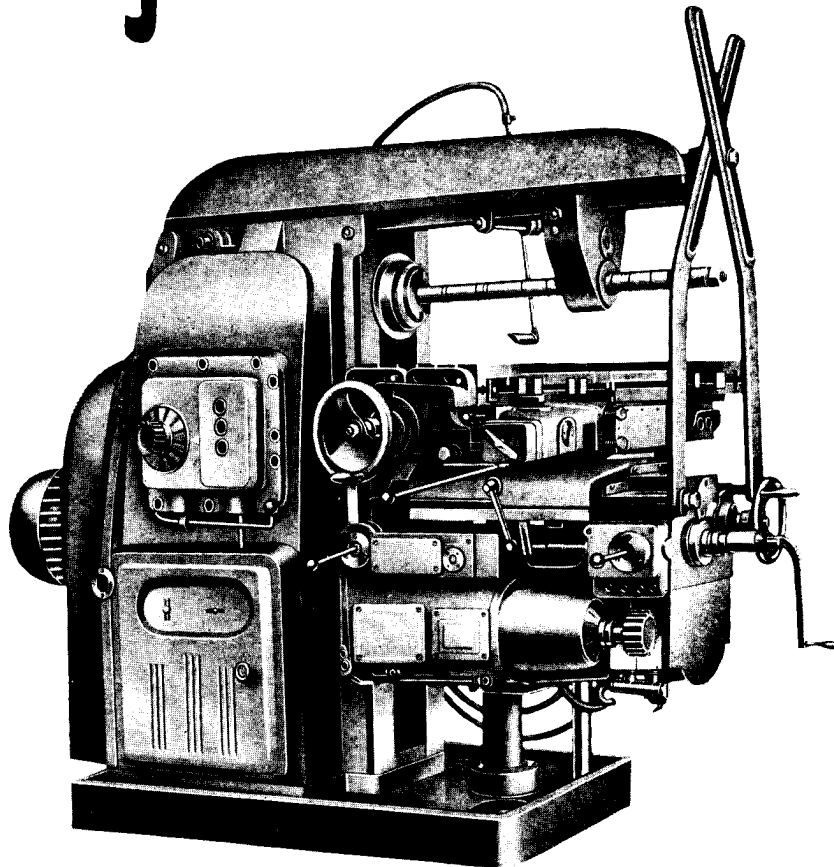
1.0 KW.

0.1 KW.

Overall dimension (I × W × H) 2100 × 1800 × 1900 mm.

Net weight 2100 kg. approx.

UNIVERSAL Milling Machine



MODEL X 62W

UNIVERSAL MILLING MACHINE

Model × 62W

This machine is capable for various kinds of milling operations, using cylindrical cutters, angle cutters, disc cutters, forming cutters, etc.

With the employment of the universal dividing head, the machine may be further used for milling spur and cylindrical gears and helices.

Because of its ample power, rigid construction, and higher spindle speed, the machine may use various carbide cutting tools

Changes of spindle speed and table feed are obtained through the selection dials of headstock gears and feed gear box.

The machine can also operate in an automatic milling cycle, continuous or intermittent, to the longitudinal movement of the table. This justifies the reasonable utilization of the machine in mass production.

Due to the provision of a climb cutting device, the machine is capable of handling either climb or conventional milling operation.

Accessories attached to the machine:—dividing head, tailstock, arbor, etc.

SPECIFICATION

Distance between centre line of spindle and table:		
Min.	...	30 mm.
Max.	...	400 mm.
Distance between vertical guide way and centre of table:		
Min.	...	205 mm.
Max.	...	455 mm.
Distance between centre line of spindle and overarm		155 mm.
Working surface of table (L × W)		1250 × 320 mm.
Maximum table travel		
Longitudinal:		
Power	...	700 mm.
Manual	...	700 mm.
Cross:		
Power	...	230 mm.
Manual	...	250 mm.
Vertical:		
Power	...	350 mm.
Manual	...	370 mm.
Distance between "T" slots		70 mm.
Max. table swivel		± 45°
No. of spindle speeds		18
Range of spindle speed		30-1500 rpm.
Table feed:		
Number		18
Longitudinal		19-950 mm/min.
Cross		19-950 mm/min.
Ratio, vertical and longitudinal		1/3
Rapid traverse speeds of table:		
Longitudinal		2300 mm/min.
Cross		5300 mm/min.
Vertical		770 mm/min.
Motors: 3-phase, A.C.		
Main drive motor:		
Power	...	7 KW.
Speed	...	1445 rpm.
Feed motor:		
Power	...	2.8 KW.
Speed	...	1440 rpm.
Overall dimension (L × W × H)		2100 × 1740 × 2000 mm.
Net weight		3100 kg. approx.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

BRANCHES

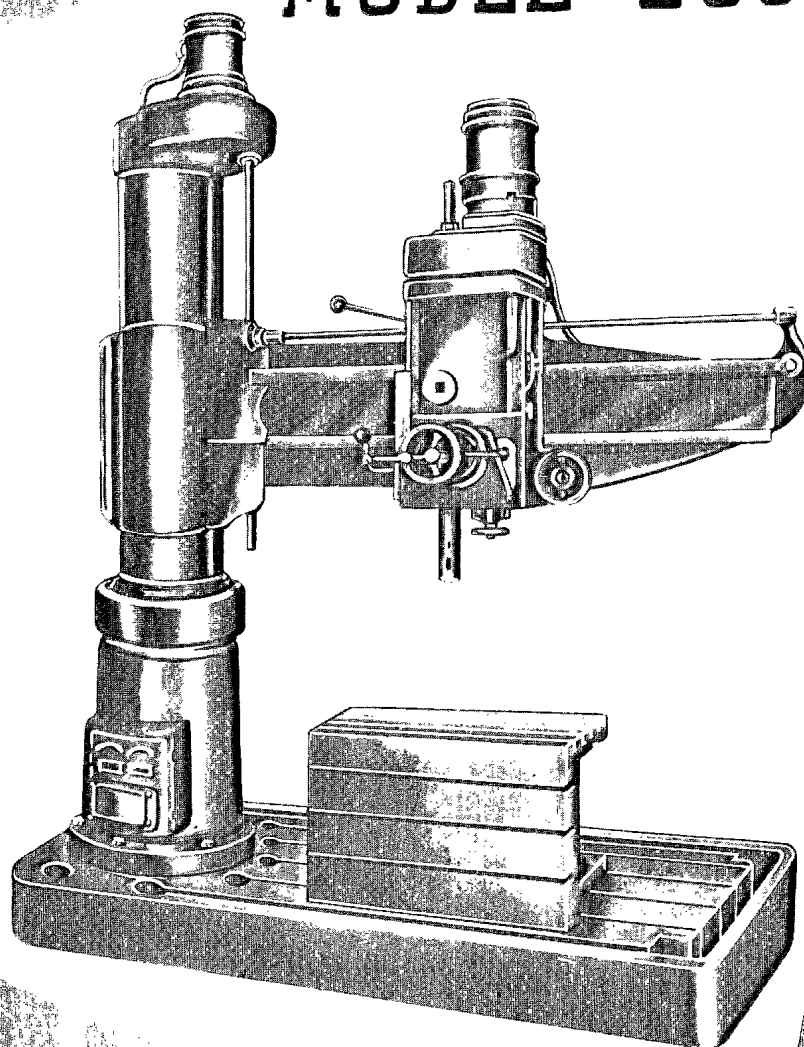
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Cable Address: MACHIMPORT Shanghai

CANTON OFFICE: No. 2, West Bund Road, Canton
Cable Address: MACHINERY Canton

Radial Drilling Machine

MODEL Z33



旋臂鑽床

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

RADIAL DRILLING MACHINE

MODEL Z33

This machine is used for drilling, counter-boring, reaming, boring and tapping. The spindle is driven by a reversible motor. Feeds are performed either automatically or by hand.

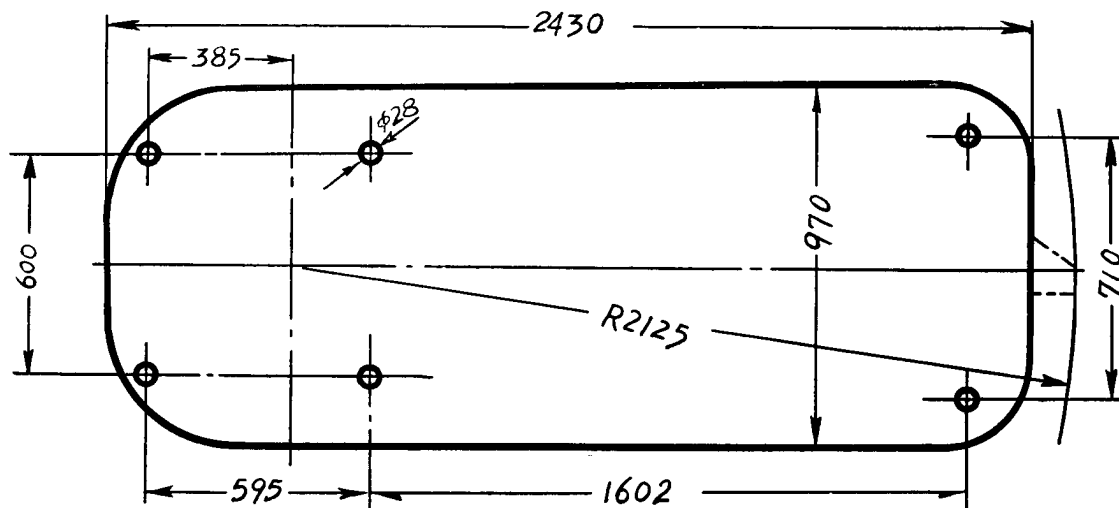
The spindle box moves horizontally along the arm and may be locked in any position by hand. The lifting of the arm along the column is effected by a single electric motor. It is released or clamped automatically at starting and stopping of the motor. The arm can be swiveled around the column by hand.

The change of spindle speed is obtained through the change-gear box, and change of feed rate through the feed box.

Max. drilling capacity	35 mm.
Distance, centre of spindle to column (overhang):	
Minimum... ..	450 mm.
Maximum	1500 mm.
Distance, spindle nose to table:	
Minimum... ..	0 mm.
Maximum	1000 mm.
Distance, spindle nose to base:	
Minimum... ..	500 mm.
Maximum	1500 mm.
Spindle travel (power or manual)... ..	330 mm.
Taper in spindle bore	Morse No. 4
Vertical travel of spindle head	1050 mm.
Max. vertical travel of arm on column	689 mm.
Max. swivel of arm on column	360°
Vertical rapid travel speed of arm	1.2 m/min.
No. of spindle speeds	12
Spindle speed range	45-2090 rpm.
No. of spindle feeds	12
Spindle feed range	0.03-1 mm/rev.

Electric Motors: 3-phase, A.C.

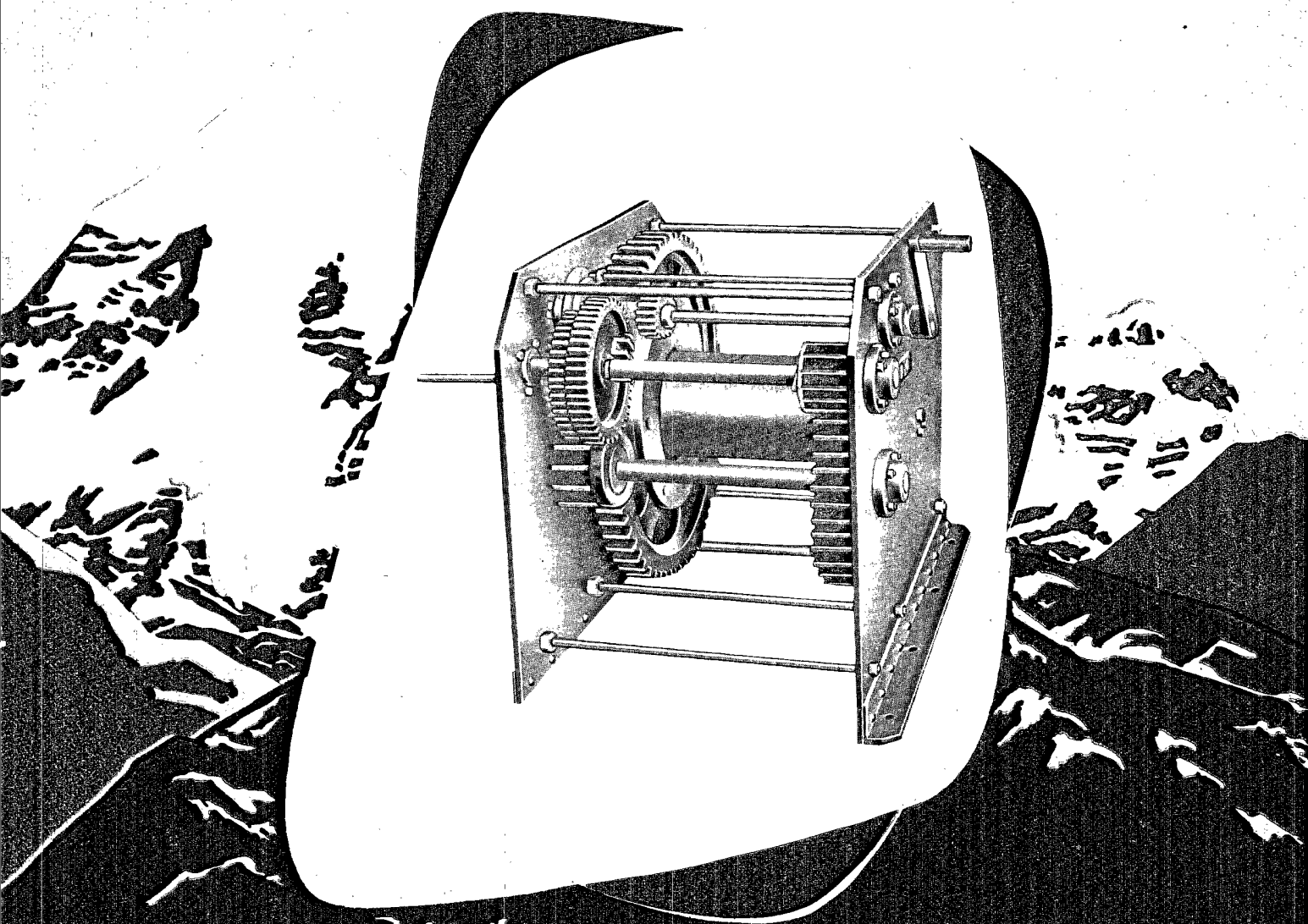
drilling motor:	Power	...	...	...	...	...	...	...	...	3.2 KW.
	Speed	...	...	...	...	...	...	...	...	1450 rpm.
elevating motor:	Power	...	...	...	...	...	...	...	...	1.5 KW.
	Speed	...	...	...	...	...	...	...	...	1425 rpm.
coolant pump motor:	Power	...	...	...	...	...	...	...	...	0.125 KW.
	Speed	...	...	...	...	...	...	...	...	2800 rpm.
Overall dimensions (L x W x H)		...	...	...	...	...	...	...	...	2500 x 970 x 3350 mm.
Net weight		...	...	...	...	...	...	...	...	4100 kg. approx.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

BRANCHES

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手搖捲揚機

HAND OPERATED WINCH

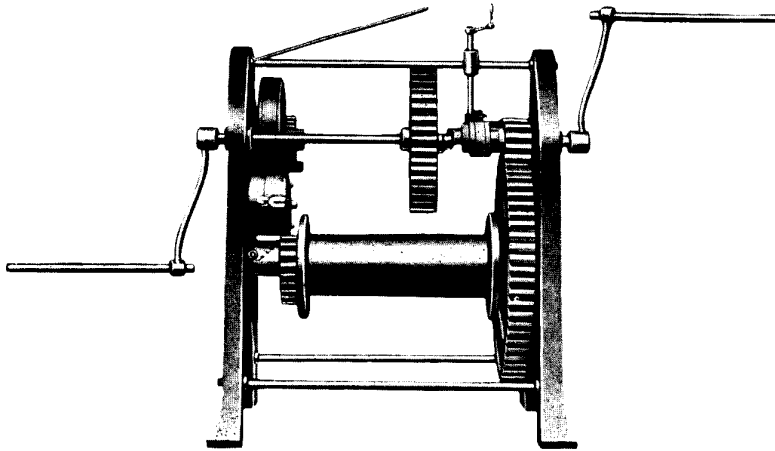
中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

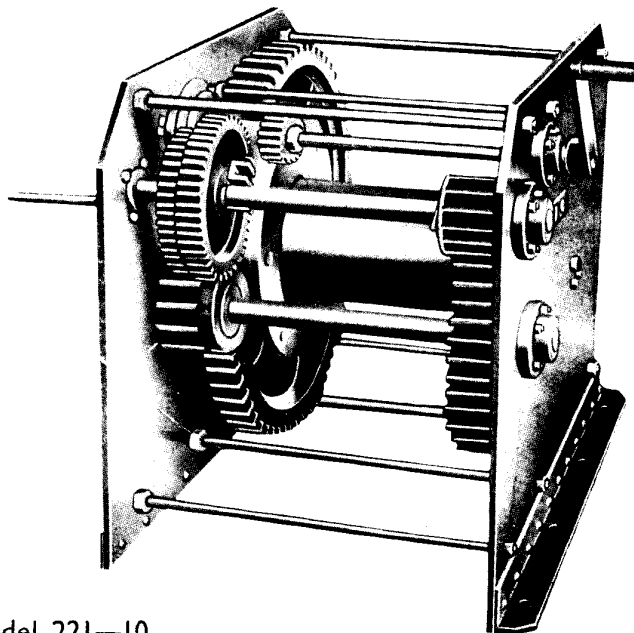
ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING



Model 221—3

3-TON HAND OPERATED WINCH



Model 221—10

10-TON HAND OPERATED WINCH

3-TON HAND OPERATED WINCH

Model 221—3

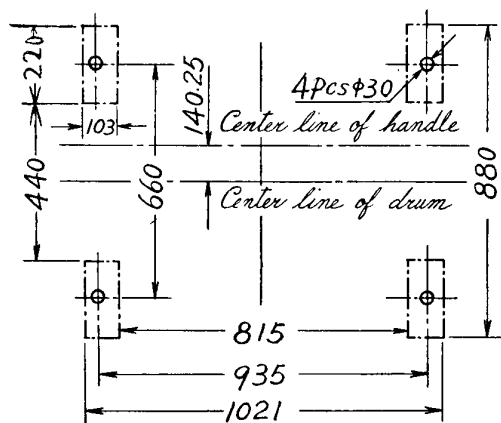
This Winch is of single drum type. Owing to different reduction gear ratios, the drum is capable of two speeds.

The Winch is provided with a hand-operated band brake and a ratchet wheel, and is very handy and safe. It is portable and can be installed easily.

The Winch is provided with four foundation bolts, suitable for installation at any fixed place. Steel wire rope is not included with the machine.

SPECIFICATION

S.L.P. capacity: Slow speed	...	...	...	...	...	...	...	...	...	3000	kg.
High speed	...	...	...	...	...	...	...	...	...	800	kg.
Drum: Diameter	...	...	...	...	...	...	...	...	...	200	mm.
Dia. of flange	...	...	...	...	...	...	...	...	...	360	mm.
Width	...	...	...	...	...	...	...	...	...	574	mm.
Height of drum shaft centre line	...	...	...	...	...	...	...	...	...	...	...
above ground	...	...	...	...	...	...	...	...	...	457	mm.
Height of handle centre line above	...	...	...	...	...	...	...	...	...	...	...
ground	...	...	...	...	...	...	...	...	...	862	mm.
Handle length	...	...	...	...	...	...	...	...	...	400	mm.
Speed ratio:	...	...	...	...	...	...	...	...	...	...	...
Slow speed	...	...	...	...	...	...	...	...	...	1 : 22.1	
High speed	...	...	...	...	...	...	...	...	...	1 : 6.1	
Steel wire rope:	...	...	...	...	...	...	...	...	...	...	...
Diameter	...	...	...	...	...	...	...	...	...	16	mm.
Length...	...	...	...	...	...	...	...	...	...	100	m.
Max. breaking strength	...	...	...	...	...	...	...	...	...	13,100	kg.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	...	...	2120 × 1010 × 1290	mm.
Weight	...	...	...	...	...	...	...	...	...	660	kg.



10-TON HAND OPERATED WINCH

Model 221—10

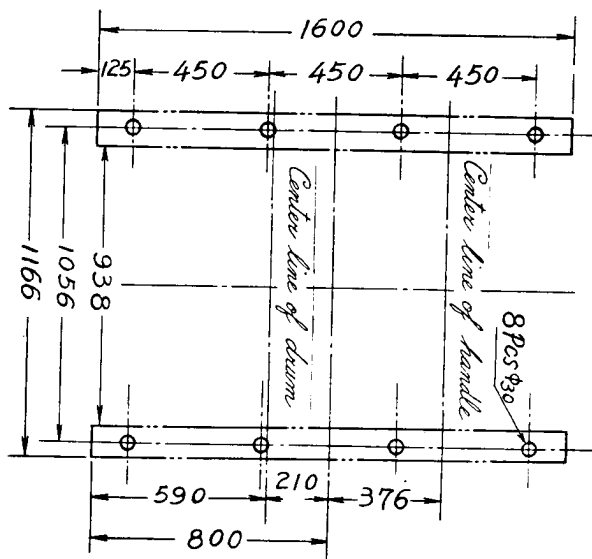
This Winch is of the single drum type. Owing to different reduction gear ratios, the drum is capable of two speeds.

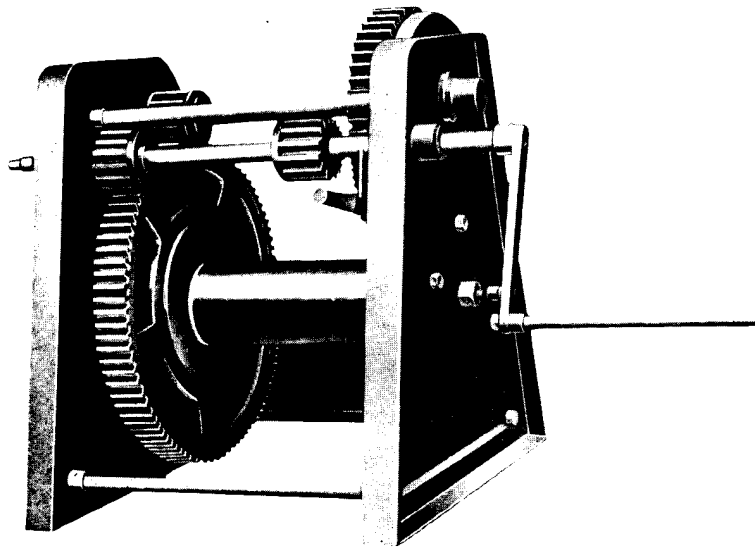
The Winch is provided with a sensitive safety brake device, operated by the pressure exerted by the load.

The Winch is supplied with eight 1" foundation bolts, suitable for installing in any fixed place. Steel wire rope is not included with the Winch.

SPECIFICATION

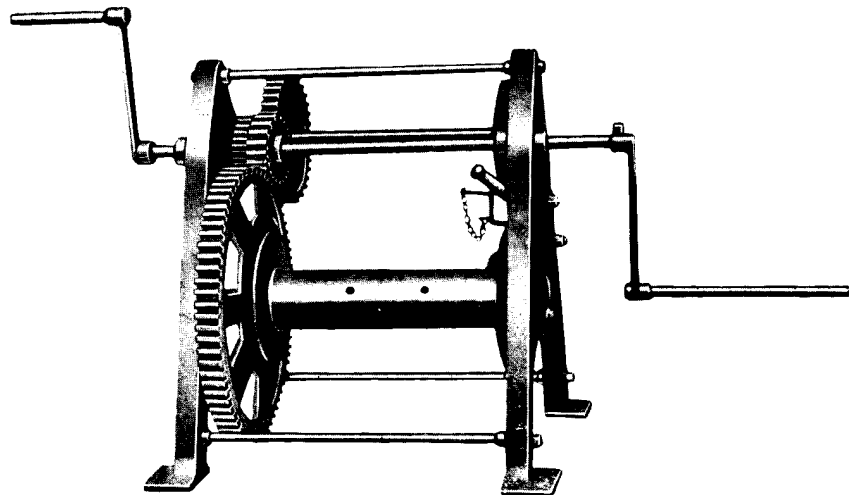
S.L.P. capacity: Slow speed	...	...	...	...	...	...	...	...	...	10	ton
High speed	...	...	...	...	...	...	...	...	...	5	ton
Drnm: Diameter	...	...	...	...	...	...	...	...	...	350	mm.
Dia. of flange	...	...	...	...	...	...	...	...	...	550	mm.
Width	...	...	...	...	...	...	...	...	...	720	mm.
Height of drum shaft centre line											
above ground	...	...	...	...	...	...	...	...	...	610	mm.
Height of handle centre line											
above ground	...	...	...	...	...	...	...	...	...	1055	mm.
Length of handle	...	...	...	...	...	...	...	...	...	400	mm.
Speed ratio: Slow speed	...	...	...	...	...	...	...	...	...	1	: 68.88
High speed	...	...	...	...	...	...	...	...	...	1	: 34.44
Steel wire rope:—											
Diameter	...	...	...	...	...	...	...	...	...	28	mm.
Length	...	...	...	...	...	...	...	...	...	100	m.
Max. breaking strength	...	...	...	...	...	...	...	...	...	37700	kg.
Overall dimension (L × W × H)	...	...	...	...	...	...	2190	×	1600	×	1480 mm.
Weight	...	...	...	...	...	...	...	...	...	1400	kg.





Model 221—5

5-TON HAND OPERATED WINCH



Model 221—1

1-TON HAND OPERATED WINCH

5-TON HAND OPERATED WINCH

Model 22I—5

This Winch is of single drum type and is hand operated.

The Winch is provided with a hand-operated band brake and a ratchet wheel. Steel wire rope is not included with the machine.

SPECIFICATION

S.L.P. capacity: Slow speed	5000	kg.
High speed	...	...	...	...	...	...	...	...	...	1400	kg.
Drum: Diameter	...	...	...	...	...	...	...	...	...	230	mm.
Dia. of flange	...	...	...	...	...	...	...	...	...	490	mm.
Width	...	...	...	...	...	...	...	...	...	692	mm.
Handle length	...	...	...	...	...	...	...	...	...	470½	mm.
Speed ratio: Slow speed	...	...	...	...	...	...	...	...	...	1 : 22.86	
High speed	...	...	...	...	...	...	...	...	...	1 : 6.46	
Steel wire rope: Diameter	...	...	...	...	...	...	...	...	...	12—20	mm.
Length	...	...	...	...	...	...	...	...	...	200—300	m.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	...	...	2810 × 1230 × 1450	mm.
Height of drum shaft centre line											
above ground	...	...	...	...	...	...	...	...	...	510	mm.
Weight	...	...	...	...	...	...	...	...	...	1100	kg.

1-TON HAND OPERATED WINCH

Model 22I—I

This Winch is of single drum type. Owing to different reduction gear ratios, the drum is capable of two speeds.

The Winch is provided with a hand-operated band brake and a ratchet wheel, and is very handy and safe. It is portable and can be installed easily.

The Winch is provided with four foundation bolts, suitable for installation at any fixed place. Steel wire rope is not included with the machine.

SPECIFICATION

S. L. P. capacity:											
Slow speed	...	...	...	...	...	...	...	...	...	1000	kg.
High speed	...	...	...	...	...	...	...	...	...	400	kg.
Drum:											
Diameter	...	...	...	...	...	...	...	...	...	150	mm.
Diameter of flange	...	...	...	...	...	...	...	...	...	340	mm.
Width	...	...	...	...	...	...	...	...	...	580	mm.
Radius of crank handle	...	...	...	...	...	...	...	...	...	350	mm.
Speed ratio:											
Slow speed	...	...	...	...	...	...	...	...	...	13.2 : 1	
High speed	...	...	...	...	...	...	...	...	...	5.4 : 1	
Steel wire rope:											
Diameter	...	...	...	...	...	...	...	...	...	6 × 9.1	mm.
Length	...	...	...	...	...	...	...	...	...	200	m.
Overall dimension (L × W × H)	...	...	...	...	...	...	...	...	...	2280 × 940 × 1140	mm.
Weight...	...	...	...	...	...	...	...	...	...	350	kg.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

BRANCHES

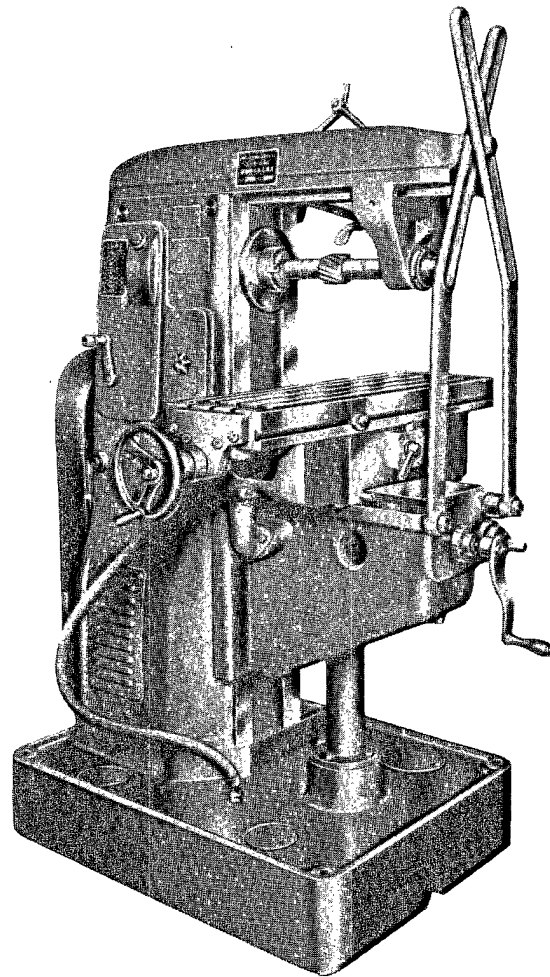
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HORIZONTAL MILLING MACHINE

Model X602



臥式銑床

中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)
ER-LI-KOU, HSI-CHIAO, PEKING, CHINA
CABLE ADDRESS: "MACHIMPORT" PEKING

HORIZONTAL MILLING MACHINE

MODEL X602

This machine is suitable for milling various parts, using cylindrical, disc, angle or form milling cutters.

The working table and the main spindle are driven by an individual electric motor.

The spindle speeds are regulated by change gears and back gears.

The longitudinal movement of table is driven either by power or by hand, but the cross and vertical movements are driven by hand only.

The table feed is regulated by change gears and back gears.

The automatic cross movement of table is stopped either by hand or by limit stop.

SPECIFICATION

Distance, spindle centre line to table:

Minimum	30 mm.
Maximum	330 mm.

Max. distance, main spindle end to

bearings of arbor	330 mm.
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Max. distance, vertical guideway to

supporting arm	460 mm.
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Distance, rear side of table to main spindle end:

Minimum	0 mm.
Maximum	150 mm.

Distance, rear side of table to vertical guideway:

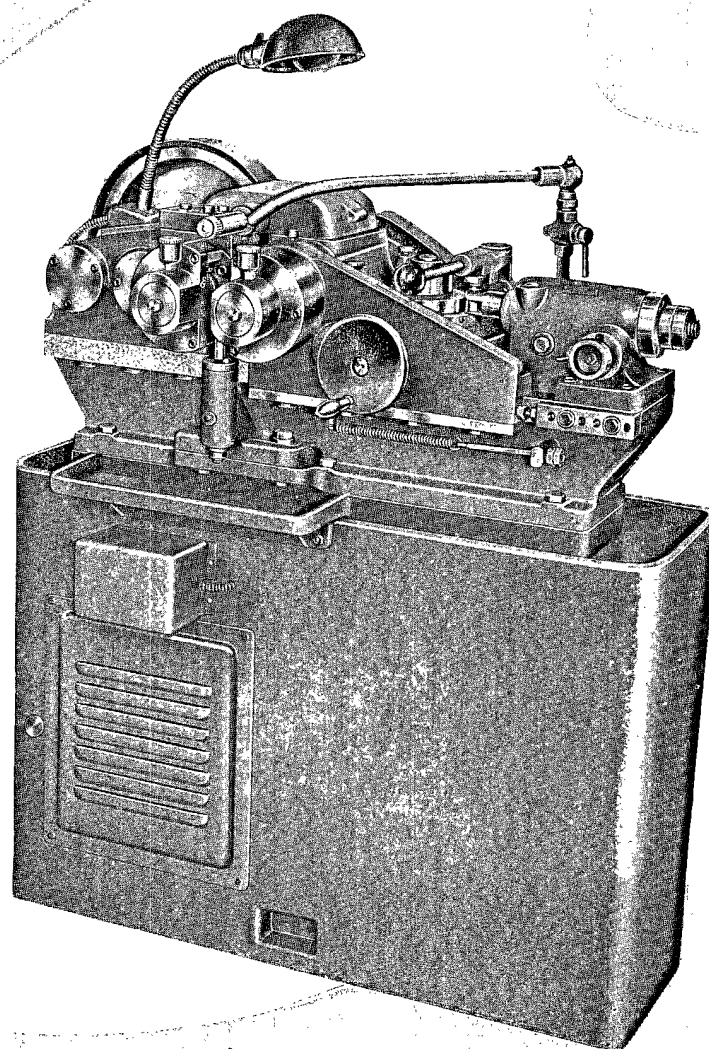
Minimum	45 mm.
Maximum	195 mm.

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Thread Rolling Machine

滾絲機



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)
ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA
CABLE ADDRESS: "MACHIMPORT" PEKING

Universal Semi-automatic Thread Rolling Machine

Model

The.....Universal Semi-automatic Thread Rolling Machine is designed particularly for thread rolling of various machine component parts.

Threads are rolled through two rollers with thread cuts. On account of the radial pressure produced on approach of the rollers, the same thread cuts on the surface of the rollers are rolled onto the surface of the workpiece which is placed in special chucks and between rotating rollers. Instantaneous tangential push forces make the workpiece rotate, and threads similar to those on the rollers are then rolled onto the whole surface of the workpiece.

Roller speeds are adjusted through interchangeable gears. Spindle head feeds are effected through a cam and adjusted by means of interchangeable gears.

The machine operates in either semi-automatic or automatic cycles in conformity with the contour of the cam. Under the first instance, the feed movements of the spindle head are automatically stopped after the rolling operation is completed.

Individual motor drive is provided for the machine.

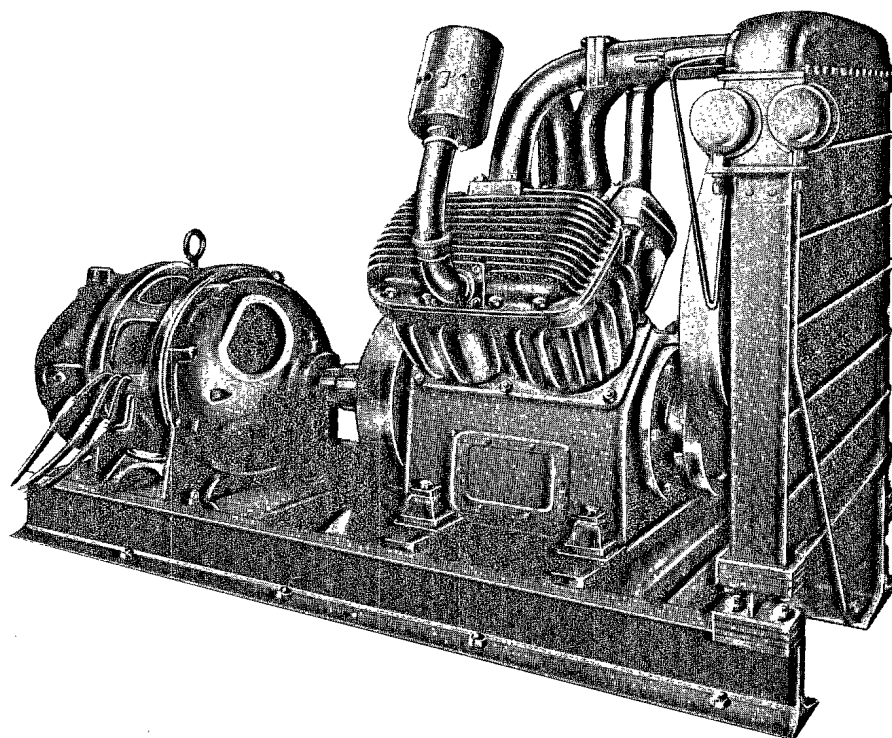
SPECIFICATIONS

Distance, chuck face to center line of spindle	220 mm
Distance between spindles, minimum and maximum	90 - 150 mm
Diameter rolled, minimum and maximum	6 - 33 mm
Maximum pitch of thread	2.5 mm
Maximum length of thread	40 mm
Diameter of rollers, minimum and maximum	90 - 105 mm
Maximum travel of movable spindle head	10 mm
Spindle speeds	40; 60; 86; 125; 183; 260 rpm
Range of feed cam speed	1.1 - 66.8 rpm
Range of feed, per revolution of workpiece	0.005 - 0.15 mm
Drive, 3 phase, A.C. motor:	
Power	3.2 KW
Speed	1440 rpm
Overall dimension (length x width x height)	1070 x 600 x 1070 mm
Net weight	approx. 625 kg

N.B. - For improvement of the machine, we reserve the right to alter either the design or the specification.

Air Compressor

Model 1-6/7



空氣壓縮機

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

AIR COMPRESSOR

MODEL 1-6/7

This Air Compressor is of two-stage, four-cylinder, V-construction, single acting, air cooled type. Capacity 6 cubic meters free air per minute to pressure of 7 atmospheres.

It is driven by a direct-coupled 40 KW. motor. The compressor, motor, and intercooler are all mounted on a frame work, equipped with manometer and safety valve.

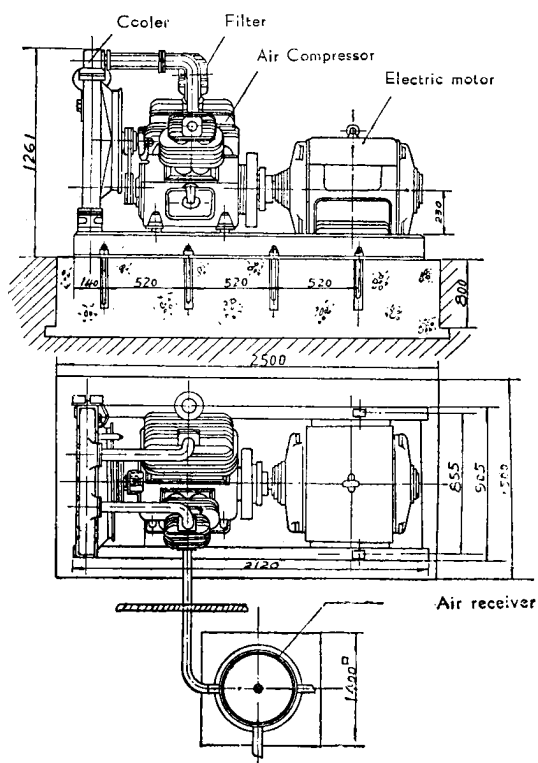
Air cooling of cylinder is effected by fans. Lubrication by splash method. Air receivers are of two sizes, namely: 0.25 cubic meter and 1.31 cubic meter respectively; any or both of them may be equipped if required.

The machine is suitable for use in building construction works, mines and workshops to supply energy to pneumatic tools.

SPECIFICATION

No. of cylinders:	1st stage	2
	2nd stage	2
Cylinder bore:	1st stage	230 mm.
	2nd stage	135 mm.
Stroke:		120 mm.
Intake capacity:		6 m ³ /min.

Pressure:	1st stage	2 atm.
	2nd stage	7 atm.
Power required		52 H.P.
Speed		730 rpm.
Motor:	Power	40 KW.
	Speed	730 rpm.
Overall dimension (L x W x H)	2120x905x1261 mm.	
(including motor)		
Net weight		1360 kg.
(including motor)		

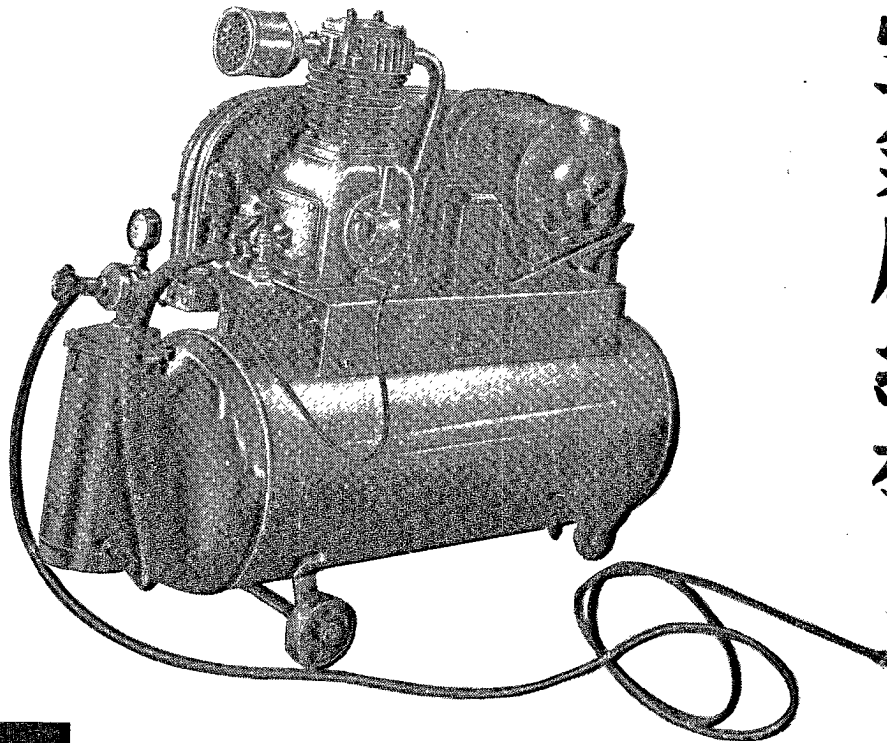


N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

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CANTON OFFICE:	No. 2, West Bund Road, Canton Cable Address: MACHINERY Canton

三馬力空氣壓縮機



3 H.P.

AIR COMPRESSOR

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

IMPORT — EXPORT

ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

3 H.P. AIR COMPRESSOR

This is a single-cylinder, vertical, air-cooled compressor. Capacity 22 cubic meters free air per hour to pressure of 6 atmospheres.

The machine is driven through V-belt by a 2.2 KW. motor, mounted on a horizontal air reservoir of 150 litre capacity. The unit is easy to move around as it is fitted with wheels.

The flywheel also performs as a fan, effecting cooling efficiently. The crankshaft is fitted with ball bearings, ensuring smooth running. Lubrication is performed by the rotary crankshaft carrying the lubricating oil from the crank case to all the rotating parts.

A pressure gauge and a spring safety valve are fitted onto the air reservoir. When a pre-regulated pressure, range 4 to 6 atm. at will, is exceeded, the machine will be stopped automatically. A filter is provided for filtering exhaust air and a pressure regulating valve for regulating the exhaust pressure.

This machine, as the main source of supply of compressed air in workshops, is used for driving various kinds of pneumatic tools for spraying lacquer, cleaning machines, etc.

Intake Capacity:	22 m ³ /hr. (775 ft ³ /hr.)
Pressure	6 atm. (85 lbs/in ²)
Speed	650 rpm.

Motor:

Type	A. C., 3-phase, Induction type.
Power	2.2 KW.
Speed	1400 rpm.
Voltage	220/380 V.
Frequency	50 cycles

Air Reservoir:

Capacity	150 litres
Pressure	10 atm.
Overall dimension (LxWxH)	1600x540x1080. mm.
Net weight	243 kg.

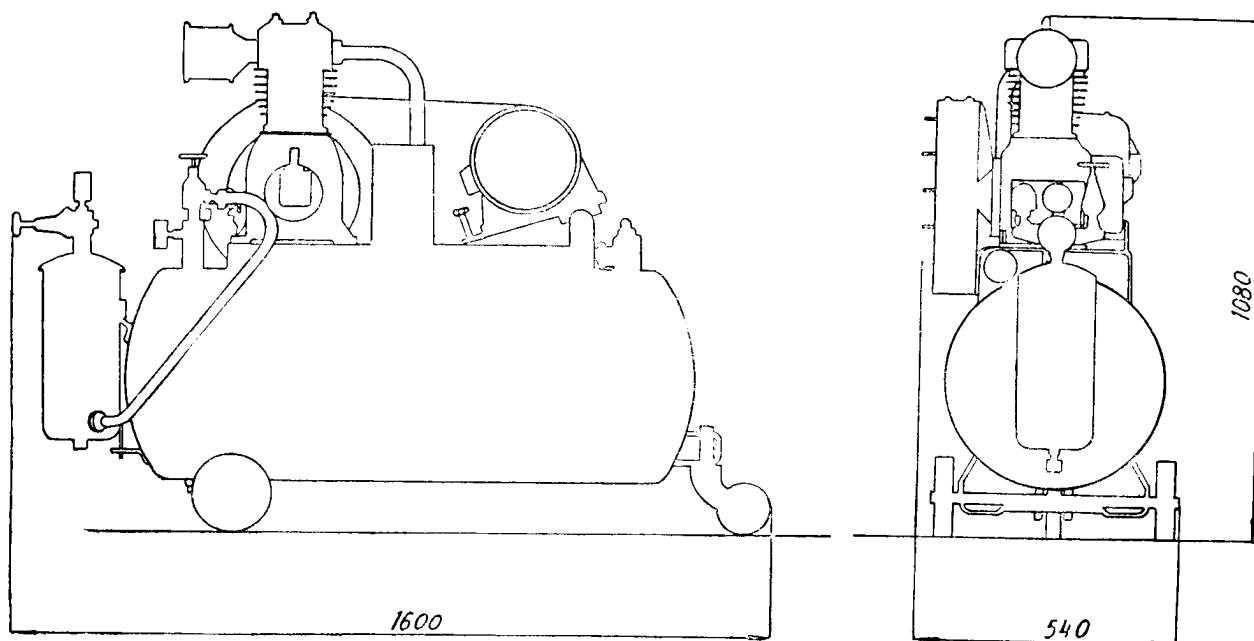


Diagram Showing Overall Dimensions

N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

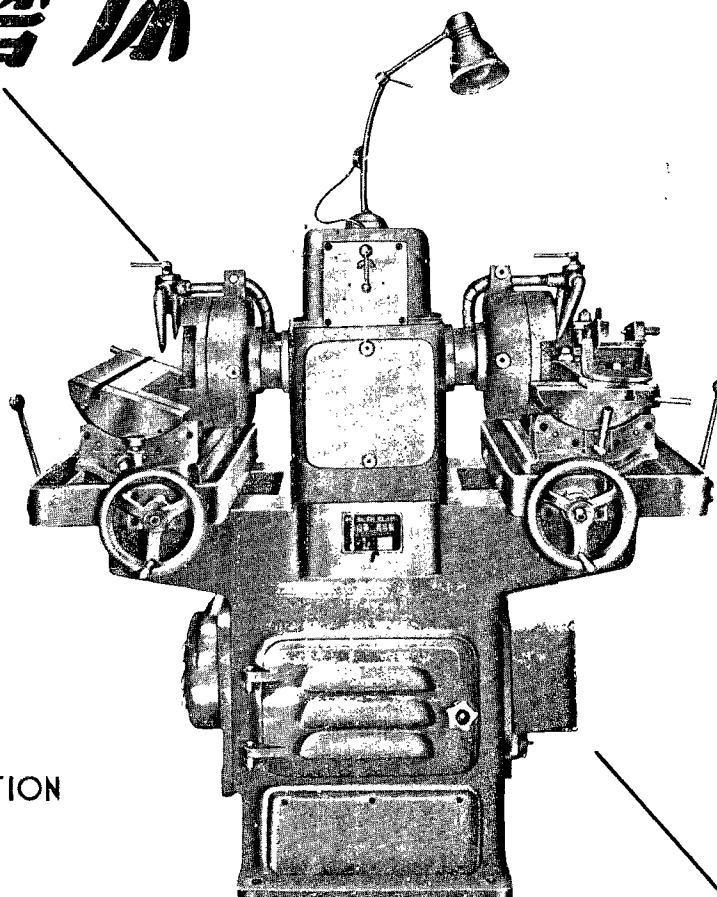
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TOOL GRINDER

Model M6250K

刀具磨床



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)
ER-LI-KOW, SHIH-CHIAO, PEKING CHINA
CABLE ADDRESS: "MACHIMPORT" PEKING

刀具磨床

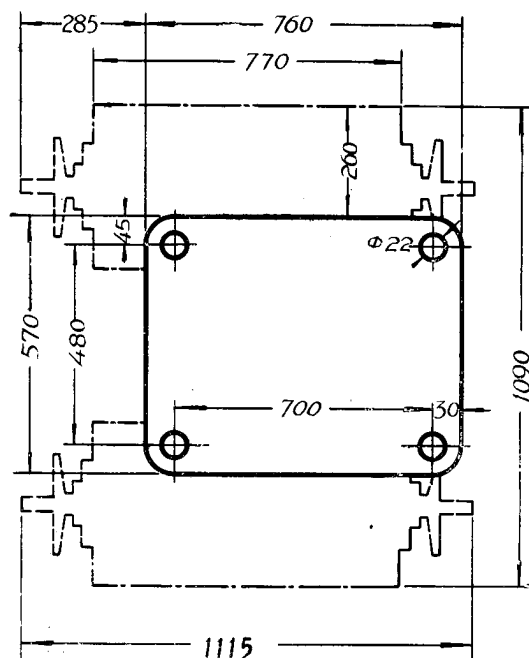
TOOL GRINDER MODEL M6250K

This machine is suitable for grinding carbide tools. The carriage is composed of lower slide, upper slide, and rotary table. The tool to be ground is clamped by special holding fixture and subjected to cooling action during grinding.

The cross travel of lower slide along guideways and the longitudinal travel of upper slide along the working surface of grinding wheel are both effected by hand; the swivel of working table which is fixed on the upper slide, may be adjusted according to scale.

SPECIFICATION

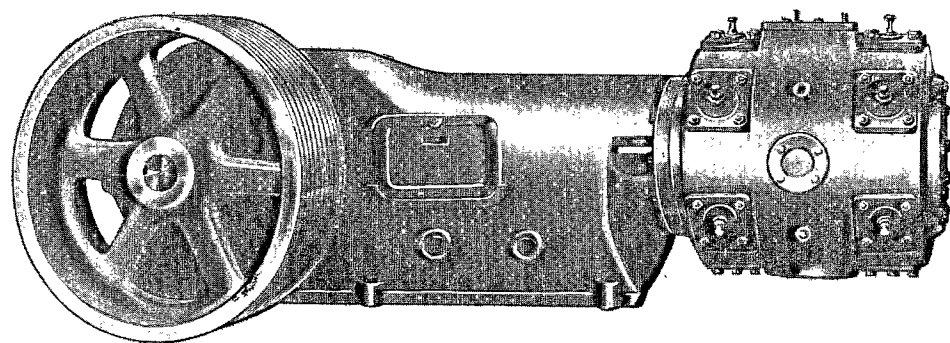
Max. size of tools to be ground	...	...	...	...	...	...	...	...	...	...	50x50 mm.
No. of grinding wheels	...	...	...	...	...	...	...	...	...	...	2
Outside diameter of wheel	...	...	...	...	...	...	...	...	...	...	250 mm.
Inside diameter of wheel	...	...	...	...	...	...	...	...	...	...	150 mm.
Height of wheel	...	...	...	...	...	...	...	...	...	...	100 mm.
Spindle speed	...	...	...	...	...	...	...	...	...	...	2280 rpm.
Motors: 3-phase, A.C.											
for main drive:											
Power	...	...	...	...	...	...	...	...	...	...	2.8 KW.
Speed	...	...	...	...	...	...	...	...	...	...	2870 rpm.
for coolant pump:											
power	...	...	...	...	...	...	...	...	...	...	0.125 KW.
Speed	...	...	...	...	...	...	...	...	...	...	2800 rpm.
Overall dimension (LxWxH)	...	...	...	...	...	...	...	...	...	...	1510 x 1115 x 1365 mm.
Net weight	...	...	...	...	...	...	...	...	...	...	1200 kg. approx.



N.B. For improvement of the machine, we reserve the right to alter either the design or the specification.

Air Compress

空氣壓縮機



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

AIR COMPRESSOR

This Air Compressor is of single cylinder, double acting, horizontal, water cooling type. Capacity 12 cubic meters free air per minute to pressure of 7 atmospheres.

It is advisable to supply cooling water by coolant pump, but pipe water may also be used. Lubrication of the various parts of this machine by means of splashing and injection. Supplied with automatic pressure regulating device, the compressor being economical in the consumption of power and ensuring safety against excessive pressure in air receiver.

The machine is used in mines, civil engineering works and industrial plants, wherever compressed air is needed for pneumatic tools.

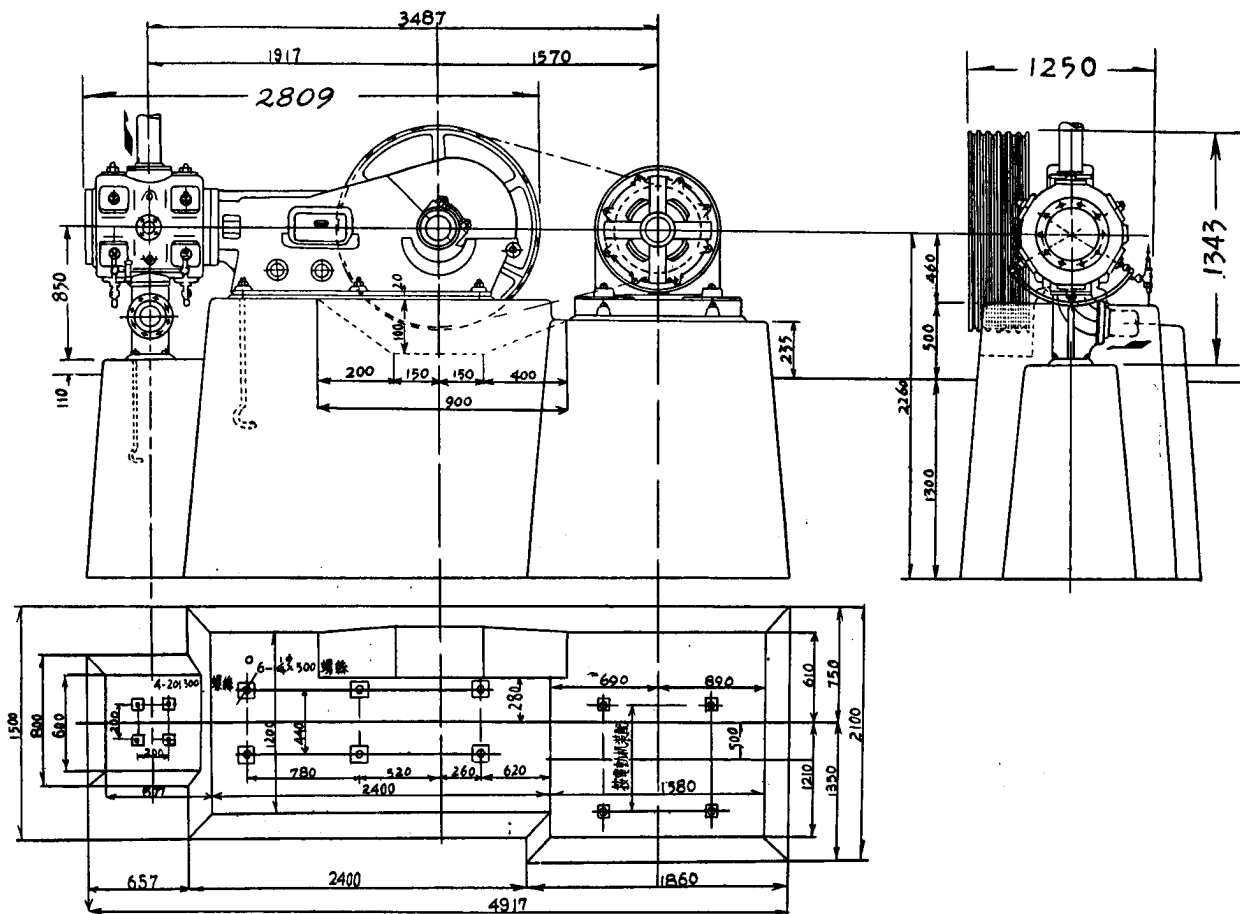
No. of cylinder....	....	....	....	....	....	....	....	....	1
Cylinder bore ....	....	....	....	....	....	....	....	....	350 mm.
Stroke ...	....	....	....	....	....	....	....	....	300 mm.
Intake capacity ....	....	....	....	....	....	....	....	....	12m ³ /min.
Pressure ....	....	....	....	....	....	....	....	....	7 atm.
Power required....	....	....	....	....	....	....	....	....	100 H.P.
Speed....	....	....	....	....	....	....	....	....	290 rpm.
Motor recommended: Power	....	....	....	....	....	....	....	....	80 KW.
Speed	....	....	....	....	....	....	....	....	720 rpm.

Overall dimension (L x W x H) 2809 x 1250 x 1343 mm.
(not including motor)

Net weight 2800 kg.
(not including motor)

Weight of heaviest piece 890 kg.

(12 立 方 公 尺)



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

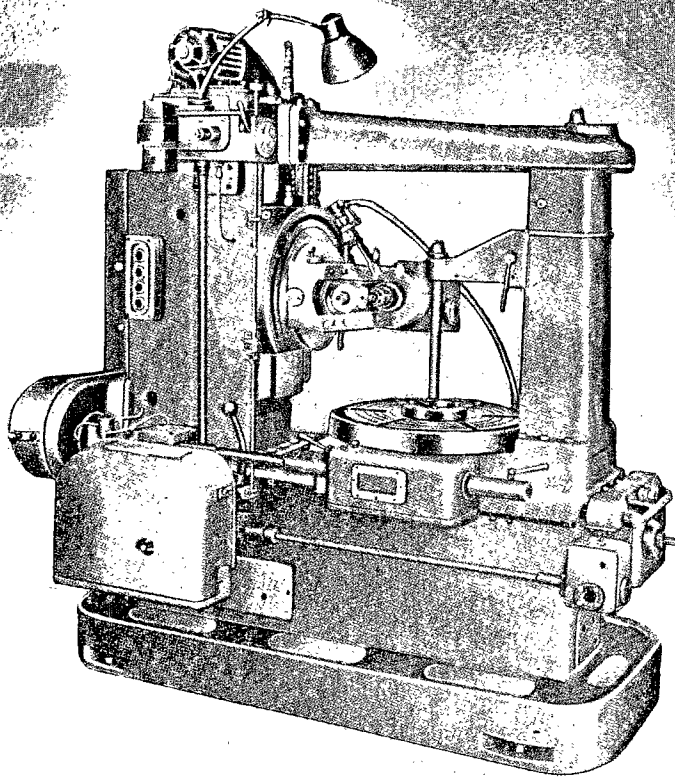
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滾齒機

GEAR HOBBIING MACHINE

MODEL J375



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

GEAR HOBGING MACHINE

MODEL J375

This machine is suitable for hobbing the spur, helical gears, and worm wheels. It is fitted with hob for cutting operations on the generating principle.

Speeds of cutter spindle, feeds of cutter or working table, continuous indexing of gear train, and the differential mechanism are all regulated through the change gears.

The spindle can revolve either in normal or reversed direction.

The feeds of the tool slide and the working table can be operated by hand.

The machine can be employed for cutting of internal gears by using a special attachment. Two electric motors are provided for this machine.

Max. module:

Normal cutting	...	...	...	...	...	...	...	...	...	6
Low speed cutting	...	...	...	...	...	...	...	...	...	8
Max. outside diameter of spur gear	...	...	...	...	...	...	...	...	...	750 mm.

Max. outside diameter of helical gear:

At angle 30°	...	...	...	...	...	...	...	...	...	500 mm.
At angle 60°	...	...	...	...	...	...	...	...	...	190 mm.
Max. height to be cut	...	...	...	...	...	...	...	...	...	250 mm.

Distance between centre lines of the working table and cutter:

Minimum...	...	...	...	...	...	...	...	...	...	30 mm.
Maximum	...	...	...	...	...	...	...	...	...	480 mm.

Distance between surface of the working table to the cutter spindle centre line:

Minimum...	...	...	...	...	...	...	...	...	...	165 mm.
Maximum	...	...	...	...	...	...	...	...	...	418 mm.

Diameter of working table 580 mm.

Max. traverse of working table (hand)... .. 450 mm.

Max. size of the hob (Dia. x L)... .. 120 x 130 mm.

Max. vertical movement of tool slide (power or manual)... .. 250 mm.

Distance between center-line of cutter to guide of tool slide 218 mm.

Max. swivel angle of tool slide 360°

Taper in spindle bore Morse No. 4

Cutter spindle speed ... 47, 58, 72, 87, 100, 122, 150 rpm.

Feed per revolution of working table:

Hob ... 0.25-4 mm.

Working table ... 0.105-1.68 mm.

Motors: 3-phase, A.C.

for main drive:

Power ... 3.2 KW.

Speed ... 1440 rpm.

for rapid traverse of tool slide:

Power ... 1 KW.

Speed ... 1410 rpm.

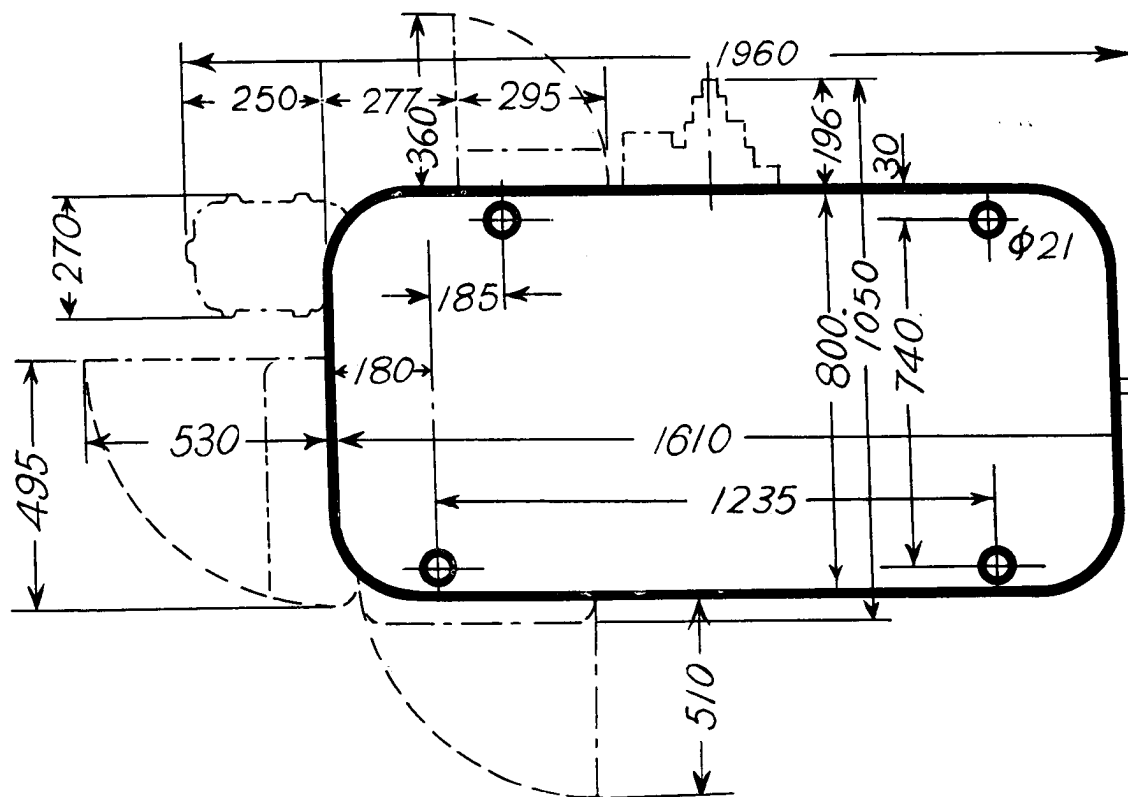
for coolant pump:

Power ... 0.125 KW.

Speed ... 2800 rpm.

Overall dimension (L x W x H) ... 1885 x 1160 x 1950 mm.

Net weight ... 2500 kg.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

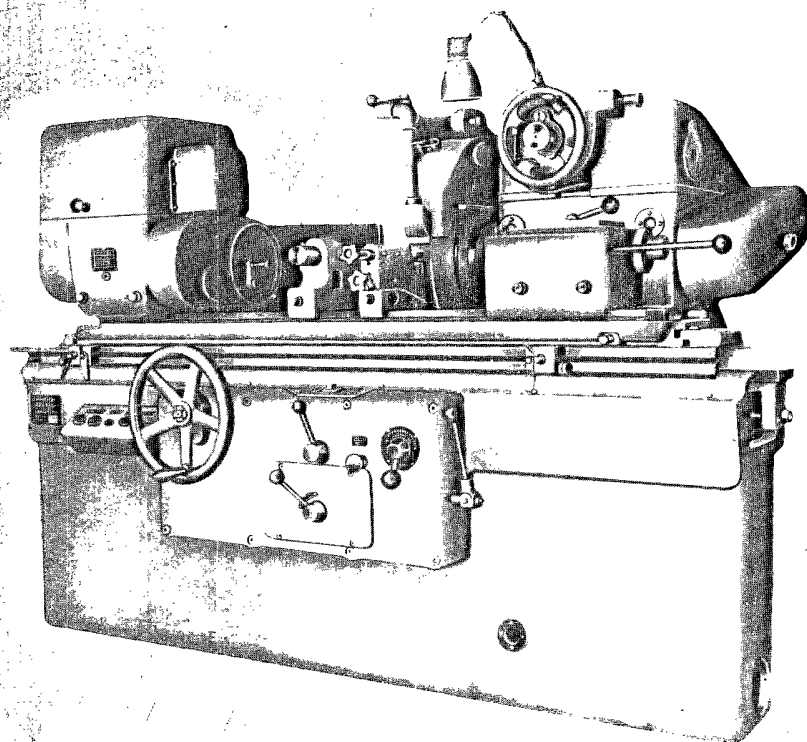
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<i>CANTON OFFICE:</i>	No. 2, West Bund Road, Canton Cable Address: MACHINERY Canton

Cylindrical Grinding Machine

MODEL M115
M125

外園磨床



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

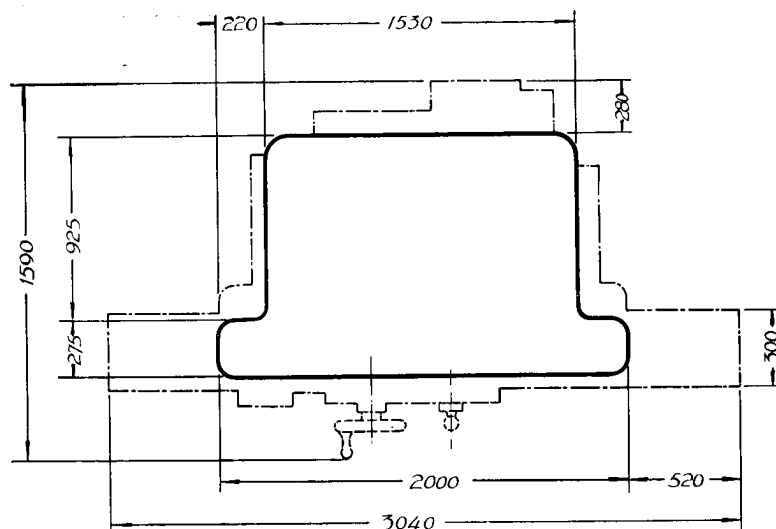
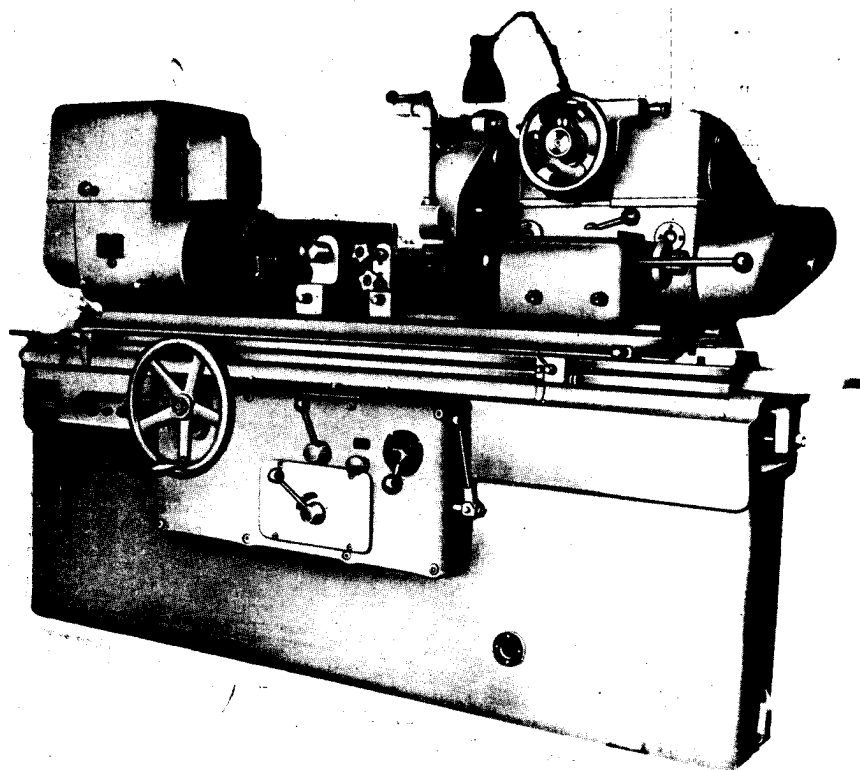
(IMPORT — EXPORT)

ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

25X1

Model M115



HYDRAULIC CYLINDRICAL GRINDING MACHINE

Model M115

This machine is designed for plain cylindrical and taper grinding of workpiece up to 150 mm in diameter and 750 mm in length.

During operation, the workpiece is held between the dead centres and is driven by a driving dog fixed in the headstock face plate.

The upper working table may be swivelled to a desired degree for taper grinding. The machine is equipped with hydraulic drive unit, by means of which the following functions are made possible:—

- (1) The longitudinal travel of table.
- (2) The rapid advance and back movement of grinding wheel and the intermittent feed of grinding wheel during the travelling of table.

The machine is fitted with hand-operated table travelling mechanism and grinding wheel feeding mechanism. The wear of grinding wheel can be compensated after adjustment. The electric system consists of four independent motors.

SPECIFICATION

1. *Main dimensions:*

Height of centres (over table)	125 mm.
Max. distance between centres	750 mm.
Distance between centre line of grinding wheel spindle and centres:	
Max.	425 mm.
Min.	225 mm.
2. *Size of Working Table:*

Diameter of workpiece that can be ground:	
Max. (with centre rest)	60 mm.
Max. (without centre rest)	150 mm.
Min.	0 mm.
Max. length of workpiece that can be ground	750 mm.
Working table, headstock and tailstock:	
Max. longitudinal travel of table (hydraulic & manual)	780 mm.
Max. swivel of table	5°
Taper in centres of headstock and tailstock	Morse No. 4
3. *Wheelhead:*

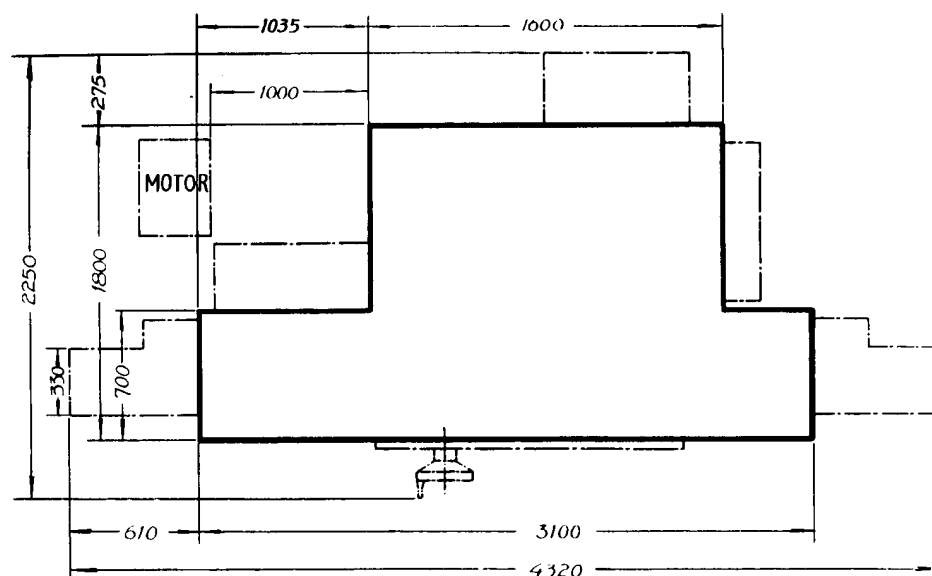
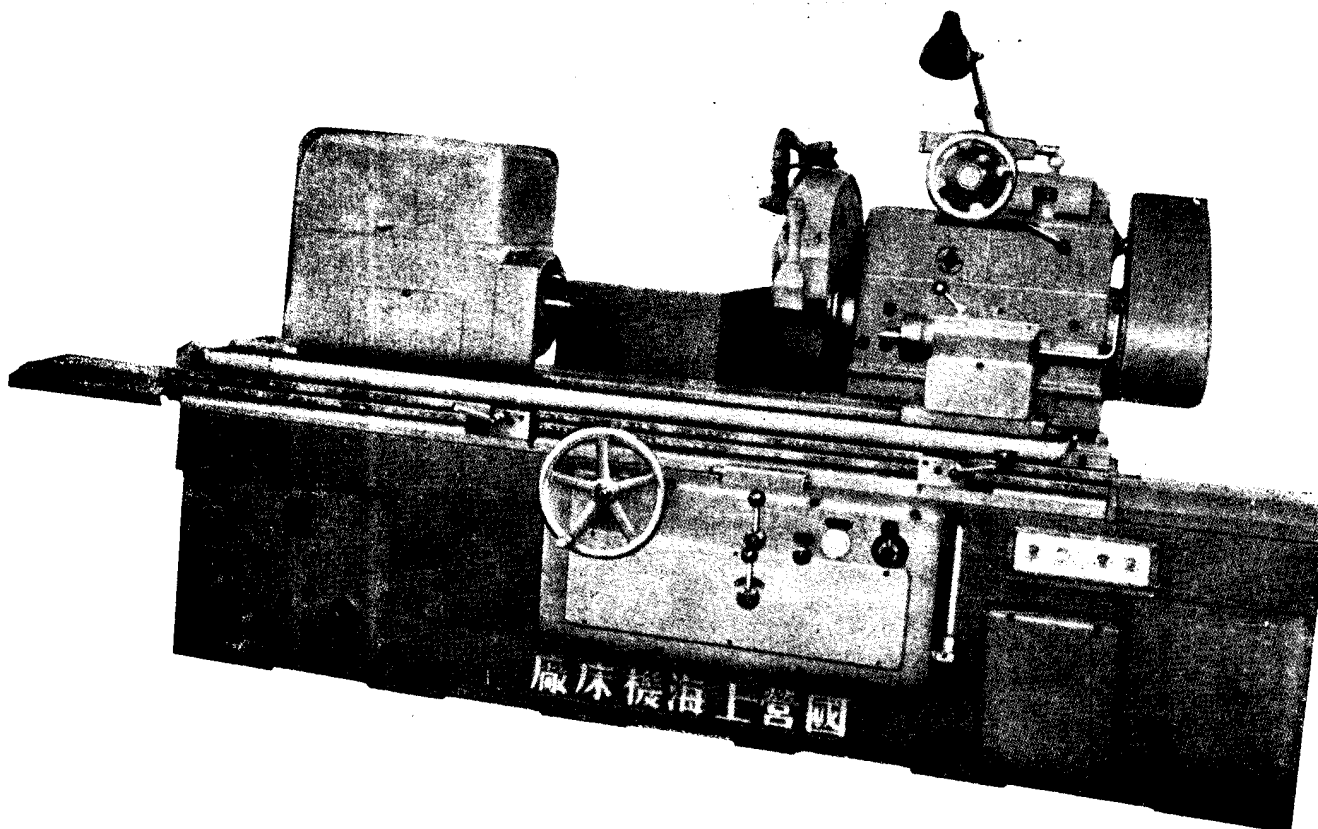
Max. travel of wheelhead: Manual	150 mm.
Power	50 mm.
Graduation of cross feed dial	0.005 mm.
Dimensions of grinding wheel:	
Max. diameter	600 mm.
Min. diameter	450 mm.
Width	60 mm.
Bore	305 mm.
4. *Capacity of Machine:*

Work spindle speeds	75,150,300 rpm.
Traverse speed of table (hydraulic):	
Max.	10 m/min.
Min.	0.08 m/min.
Feed rate for rapid advance and back movement of wheelhead	2 m/min.
5. *Motors: 3 phase, A.C.*

for Wheelhead:	Power	5.8 KW.
	Speed	1500 rpm.
for Work spindle:	Power	0.8 KW.
	Speed	1000 rpm.
for Hydraulic pump:	Power	1.7 KW.
	Speed	1400 rpm.
for Coolant pump:	Power	0.05 KW.
	Speed	3000 rpm.
6. *Overall dimension*

(L x W x H)	2260 x 1590 x 1770 mm.
-------------------	------------------------
7. *Net weight:*

Model M125



HYDRAULIC CYLINDRICAL GRINDING MACHINE

Model M125

This machine is intended for grinding cylindrical and tapered surfaces of workpieces up to 250 mm. in diameter and 1000 mm. in length.

The workpiece is set on two dead centres and rotated by means of a driving dog on the face plate. In grinding tapers, the working table can be swivelled to fit the work.

The machine is equipped with hydraulic driving system, by means of which the following functions are made possible:—

- 1) Reciprocating movement of table.
- 2) Rapid feed and withdrawal of grinding wheel.
- 3) Intermittent feed of grinding wheel.

The machine enables grinding up to the limit stop and provides means for compensating wheel wear.

SPECIFICATION

1. Capacity:—

Max. distance between centres	1000 mm.
Length of workpiece that can be ground	1000 mm.
Height of centres from table	160 mm.
Height of centres from floor	1000 mm.
Max. diameter of workpiece that can be ground with grinding wheel of ϕ 750 mm.	250 mm.
Min. diameter of workpiece that can be ground	10 mm.
Overall dimension (L x W x H)	4320 x 2225 x 1500 mm.
Net weight	6000 kg.
2. Working table and bed:—

Max. longitudinal traverse of table	1085 mm.
Table traverse per revolution of hand-wheel:	
Rapid	24 mm.
Slow	4 mm.
Hydraulic table traverse speed	0.1-10 m/min.
Max. table swivel	7°
	1 : 10 inclination
3. Carriage for grinding wheel:—

Grinding wheel dimensions:	
Minimum diameter	500 mm.
Maximum	750 mm.
Face	75 mm.
Hole	305 mm.
No. of spindle speeds	2
Range of spindle speed	860-700 rpm.
4. Cross feed mechanism of grinding wheel carriage:—

Traverse of grinding wheel carriage leadscrew	250 mm.
Traverse of grinding wheel carriage hydraulic drive	50 mm.
Traverse of grinding wheel carriage per revolution of hand wheel	1 mm.
Diameter of workpiece ground off per dial graduation	0.01 mm.
Diameter of workpiece ground off per dial graduation with adjustable stop	0.005 mm.
Intermittent feed per tooth of ratchet wheel (traverse of grinding wheel carriage)	0.01 mm.
5. Headstock:—

Taper of centre	Morse No. 5
Diameter of face plate	200 mm.
Speed of face plate	40-350 rpm.
6. Tailstock:—

Taper of centre	Morse No. 5
Extension of spindle bushing	35 mm.
Diameter of spindle bushing	80 mm.
7. Hydraulic transmission system:—

Hydraulic pressure	9 kg. cm ²
Capacity of oil pump	50 kg./min.
Capacity of coolant pump	22 kg./min.
8. Electric driving system:—

Motor for grinding wheel carriage:	Power	10 KW.
	Speed	970 rpm.
Motor for oil pump:	Power	28 KW.
	Speed	1420 rpm.
Motor for headstock:	Power	1 KW.
	Speed	940 rpm.

N.B.—*For improvement of the machine, we reserve the right to alter either the design or the specification.*

BRANCHES

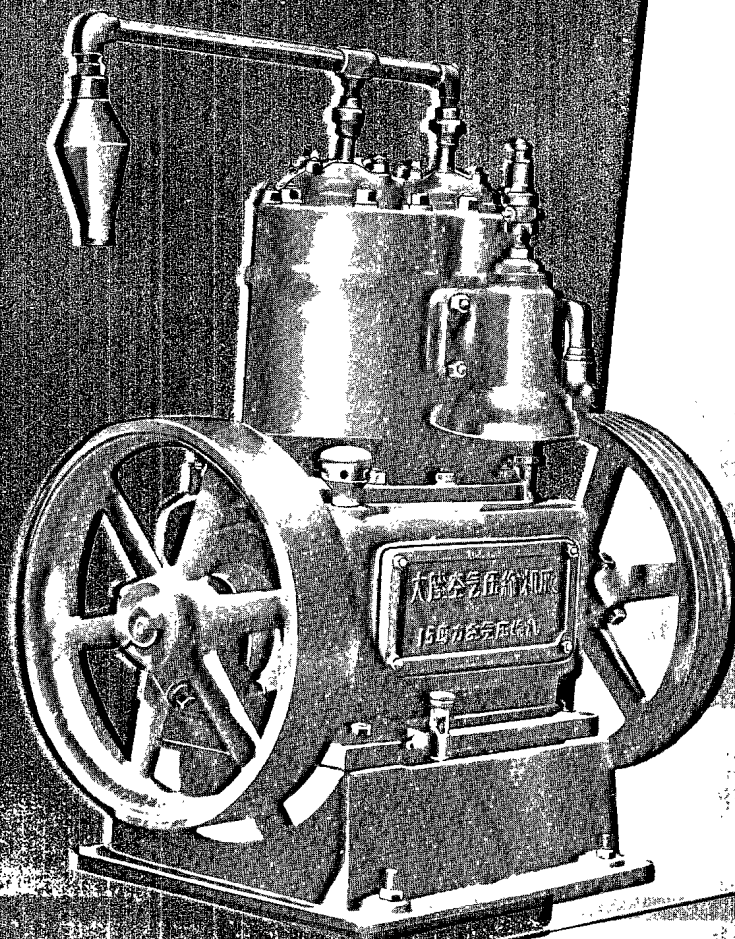
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15 H.P.

Air Compressor



15馬力

空氣壓縮機

中國機械進口公司

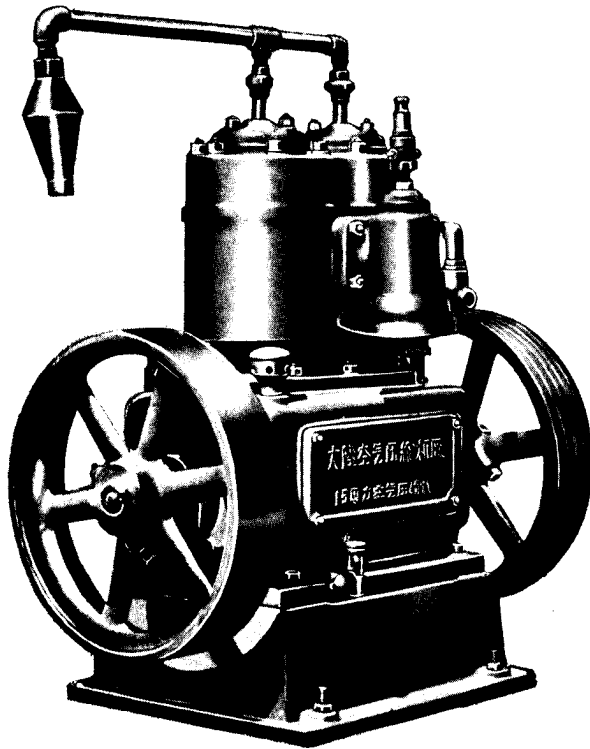
CHINA NATIONAL MACHINERY IMPORT CORPORATION

25X1

(IMPORT — EXPORT)

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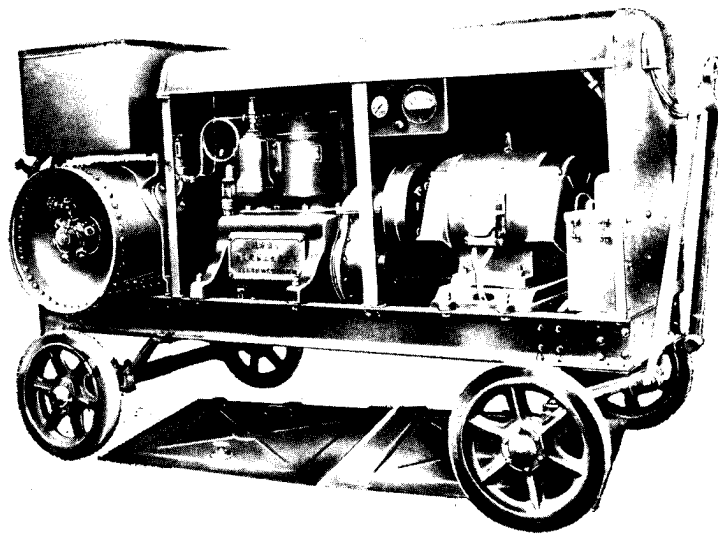
CABLE ADD: "MACHIMPORT", PEKING



15 H.P.
Stationary Type
Air Compressor

15 馬力空氣壓縮機
(固定式)

15 H.P.
Portable Type
Air Compressor



15 馬力空氣壓縮機 (移動式)

15 H.P. AIR COMPRESSOR

(Stationary or Portable Type)

A. SPECIFICATIONS:

Type :	Vertical, two-cylinder, single-acting, water-cooled.
Intake Capacity	1.7 m ³ /min.
Air Pressure	7 kg/cm ²
Cylinder dia.	140 mm.
Stroke	127 mm.
Speed	500 rpm.
Number of Stage	1
Dia. of Exhaust Pipe	51 mm.
Nett Weight	406 kg.

ELECTRIC MOTOR

	Stationary	Portable
Type ...	3-phase induction dripwater-proof squirrel cage.	3-phase induction dripwater-proof squirrel cage.
Power... 12 KW (15 HP)	12 KW	
Voltage 220-380 V.	220-380 V.	
Speed... 1500 rpm.	950 rpm.	

AIR TANK

	Stationary	Portable
Inner diameter	720 mm.	490 mm.
Height (or Length)	1219 mm.	1219.2 mm.

* Portable type is supplied with 6 distributing valves for sundry connections.

WATER BOX

Length	—	1100 mm.
Width	—	500 mm.
Height	—	500 mm.

BELT PULLEY

Diameter	510 mm.	—
Width	105 mm.	—

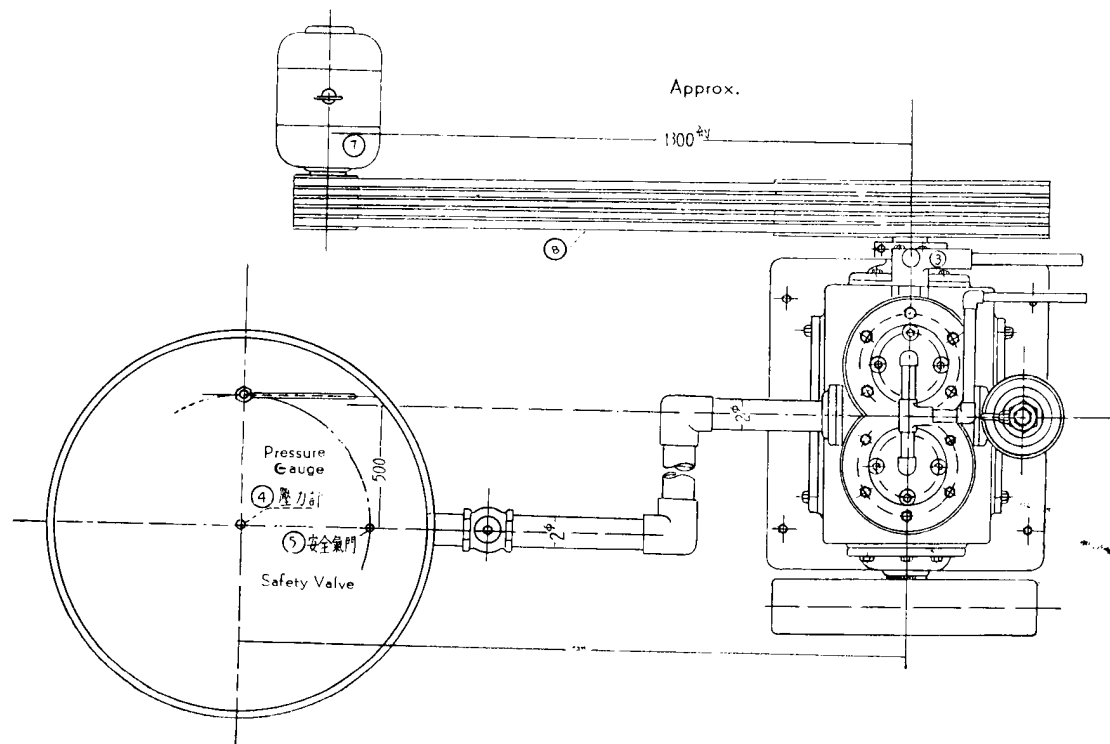
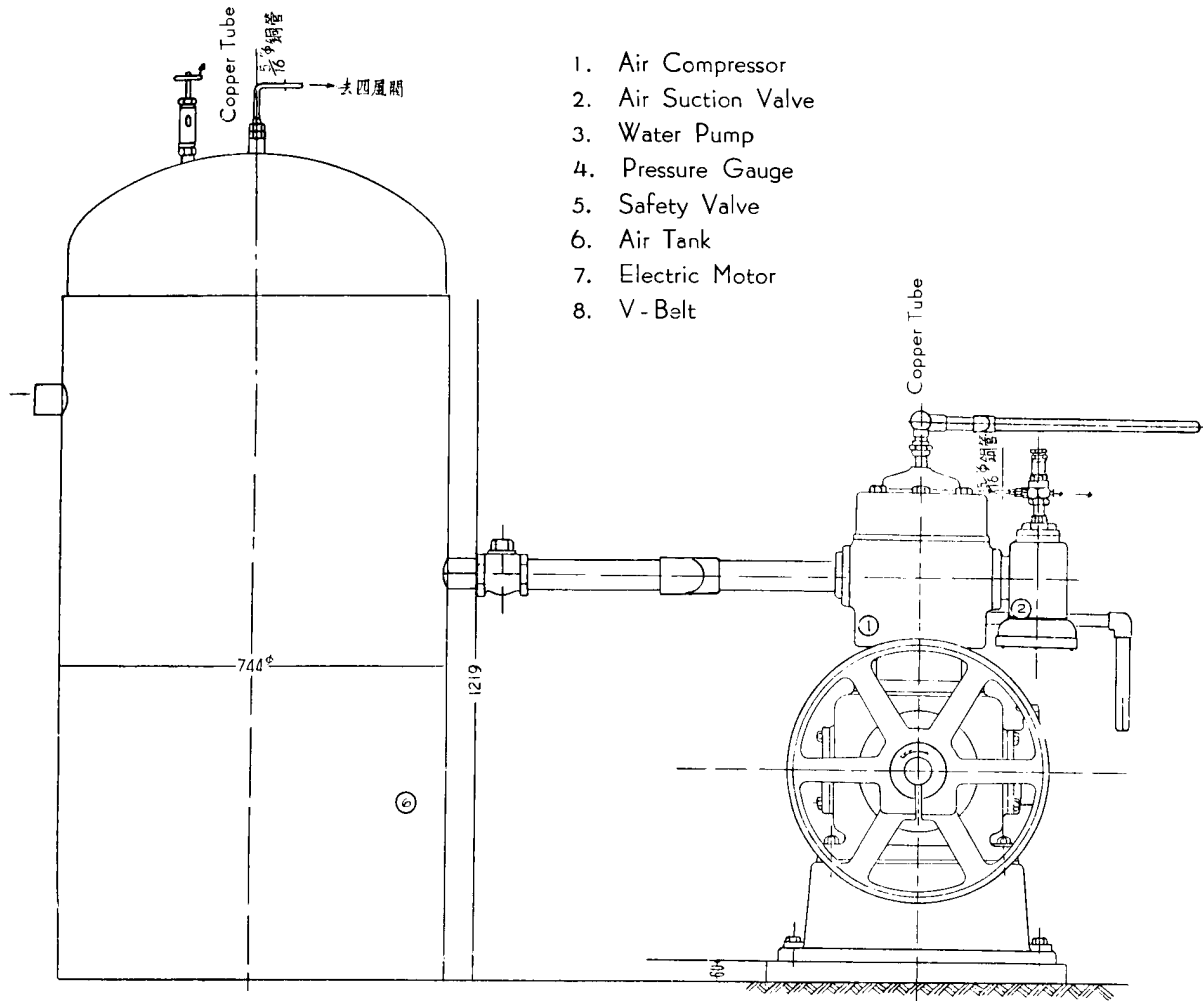
GROOVED WHEEL

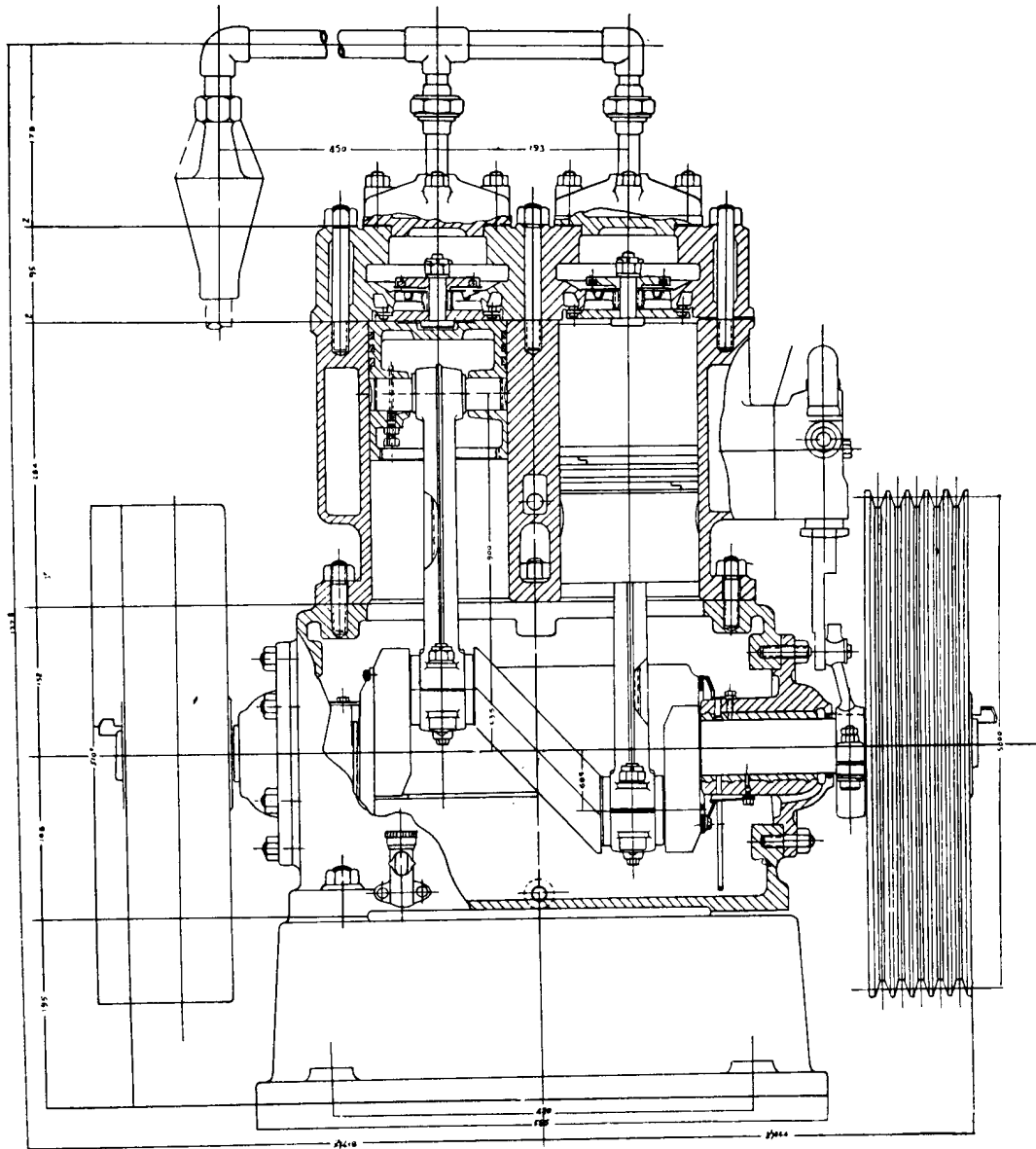
Diameter	525 mm.	—
Width	107 mm.	—

* It is gear connection for portable type.

OVERALL DIMENSIONS

Height	1100 mm.	1692 mm.
Length	900 mm.	2370 mm.
Width	600 mm.	1300 mm.





15 H.P. AIR COMPRESSOR (STATIONARY TYPE)



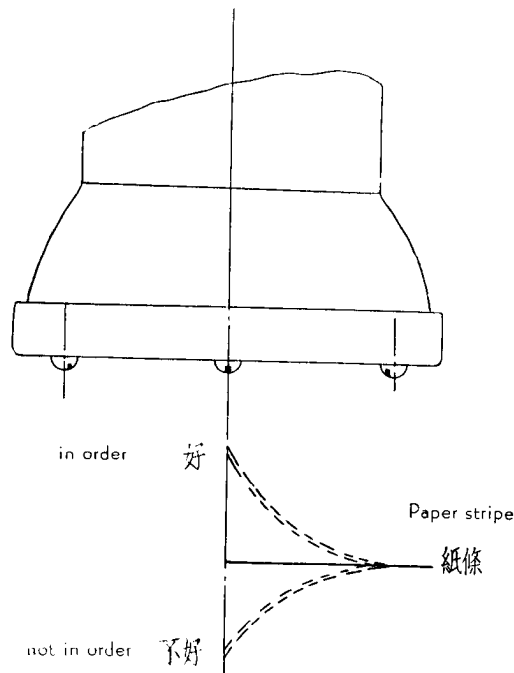
INSTRUCTION NOTES FOR SAFE OPERATION OF THE 15-HP AIR COMPRESSOR

A. NOTES FOR INSTALLATION.

1. The air compressor is most effectively operated with clean, dustless, dry, and cool air. It is therefore important to see that it is not installed in the vicinity of a boiler or where there is apt to be fly ashes.
2. The air compressor should be installed on firm and level foundation for the best reliability during operation.
3. For installation of the air compressor, the air tank, and the electric motor, please refer to diagram (2).

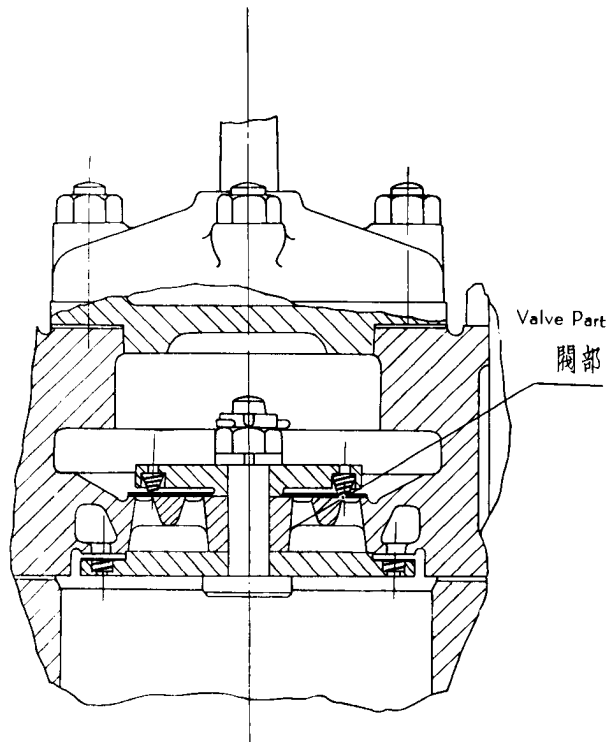
B. POINTS TO BE NOTED DURING OPERATION.

1. Before operation, turn the compressor several times slowly to see that everything is in good order.
2. Before starting, see that the lube oil tank is filled up to the 43 mm-mark. (For portable type, to the 30 mm-mark.)
3. Adjust the nut on the safety valve and the return valve for proper amount of pressure. See that the valves can operate freely.
4. Check the temperature on the cylinder wall after starting. Temperature of the cooling water should be maintained at below 35°C. (At no time it should exceed 40°C.)
5. After starting, listen carefully if there is any unusual noise in the compressor. In case it does, it should be stopped and examined.
6. With a piece of paper placed near the inlet end, see if there is any serious air leakage. Any discovery of unusual conditions warrants stopping the compressor for examination. (Diagram 4).
7. Note the air tank pressure when the air compressor is stopped. If there is any unusual loss of pressure, see if all the connections are properly made and if there is any damage to the discharge system.
8. Examine if there is any loose part in the air compressor. Any defection should be corrected immediately.



C. MAINTENANCE AND OVERHAULING.

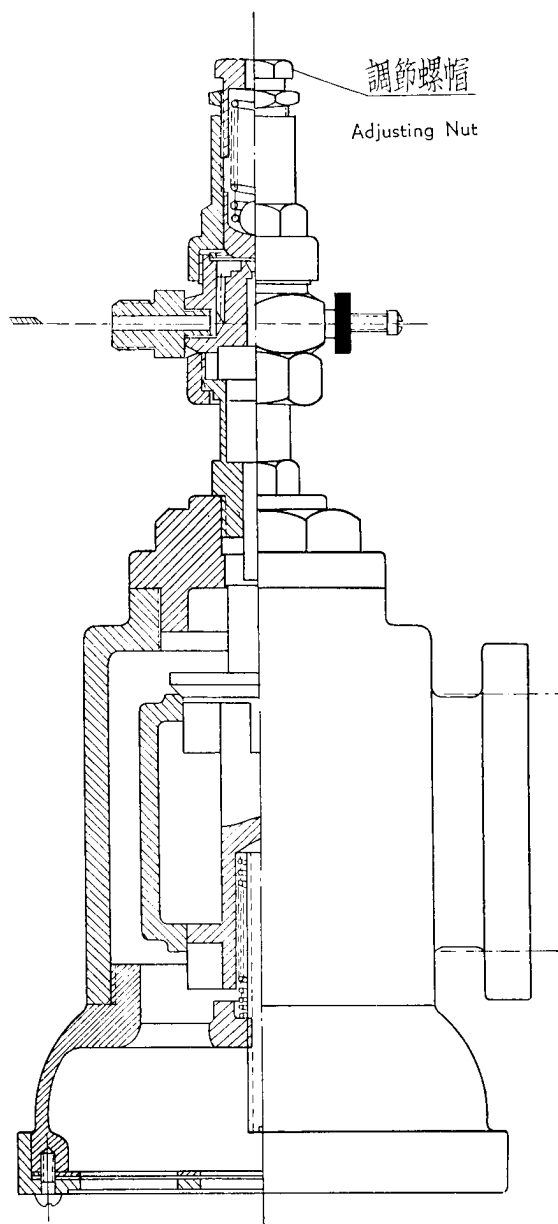
1. Clean the bottom of the air tank daily of any entrained oil.
2. Provide additional oil whenever the oil falls below the 43-mm mark. (For Portable Type, 30 mm.)
3. Clean the trough once every month. Minor mechanical parts should be given an overhaul bi-monthly; a major overhaul every half-year.
4. When the air compressor is not in service during winter season, it should be drained of all the cooling water.
5. Clean the discharge port every half-month. (Diagram 5).
6. Whenever the air compressor is stopped, the suction end should be plugged up to prevent accumulation of dirt.
7. Refer to diagrams provided when changing valves, valve springs, piston rings, etc.



AIR RETURN VALVE

The function of the air return valve is to properly regulate the compressor load during operation, to prevent uneconomical loading of the unit. Whenever the tank air pressure reaches a pre-determined value, the air return will operate automatically to close the inlet port, and in this way the load on the air compressor is reduced. When the tank air pressure falls below the normal setting, the return valve closes automatically. This automatically permits loading of the air compressor. For this reason, the valve spring on the air return valve should be properly set according to the required pressure in the air tank.

Method for readjustment of the valve spring is exceedingly simple. This can be accomplished by merely tightening or loosening the adjusting nut on top of the return valve. If the return valve opens too readily, the nut should be tightened or loosening if the opposite effect is desired.



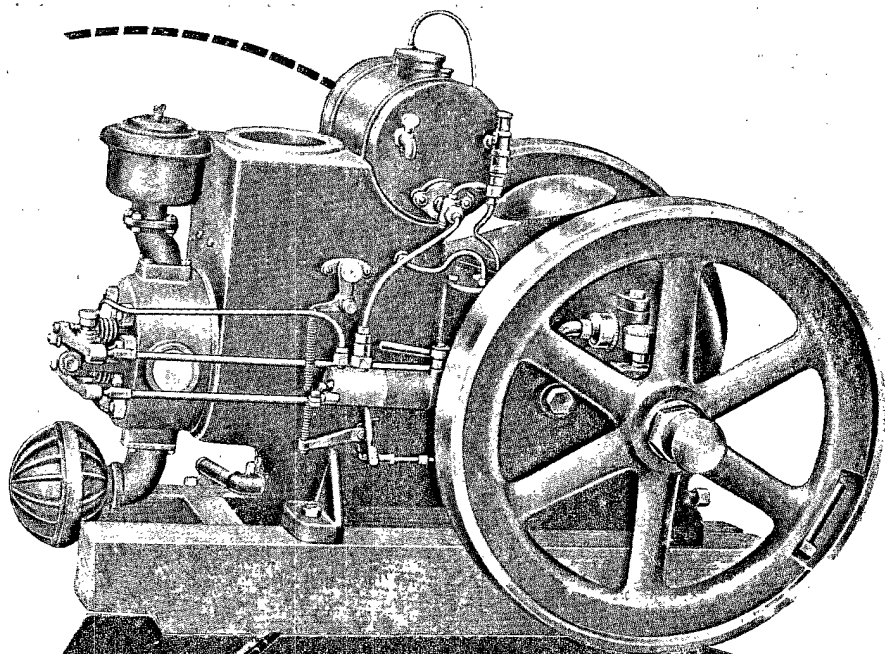
N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

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DIESEL ENGINE 5 H.P.

五匹
柴油機



中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT — EXPORT)

ER-LI-KOW SHIH-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

5 H.P. DIESEL ENGINE

This 5 H.P. Diesel Engine is simple and light in construction. It is portable and is especially suitable for generation of power for farm irrigation, small lighting unit, cotton-gin, oil press, sugarcane press, grain mill, etc. It is powerful and steady, easy to start and simple in maintenance. Only a short period is required to master its operation.

SPECIFICATION

Type	....	....	Horizontal, single cylinder, four stroke, pre-combustion chamber.
Rated Power	....	....	5 H.P.
Maximum Power	....	....	5½ HP.
Cylinder bore	....	....	110 mm.
Stroke	....	....	170 mm.
Piston displacement	....	....	1.62 litres
Rated speed	....	....	700 rpm.
Compression ratio	....	....	17.5 : 1
Speed regulation	....	....	4%
Belt pulley :			
Diameter	....	....	250 mm.
Width	....	....	100 mm.
Lubrication	....	....	Pressure lubrication and grease
Fuel consumption	....	....	210 - 232 gr./H.P.hr.
Average temperature of cooling water	....	....	100°C.
Starting	....	....	Manual and paper ignition

Overall dimension (LxWxH) 1125x830x780 mm.

Net weight 380 kg.

Engine Accessories :

Socket wrench 1 pce.

Flywheel nut wrench 1 „

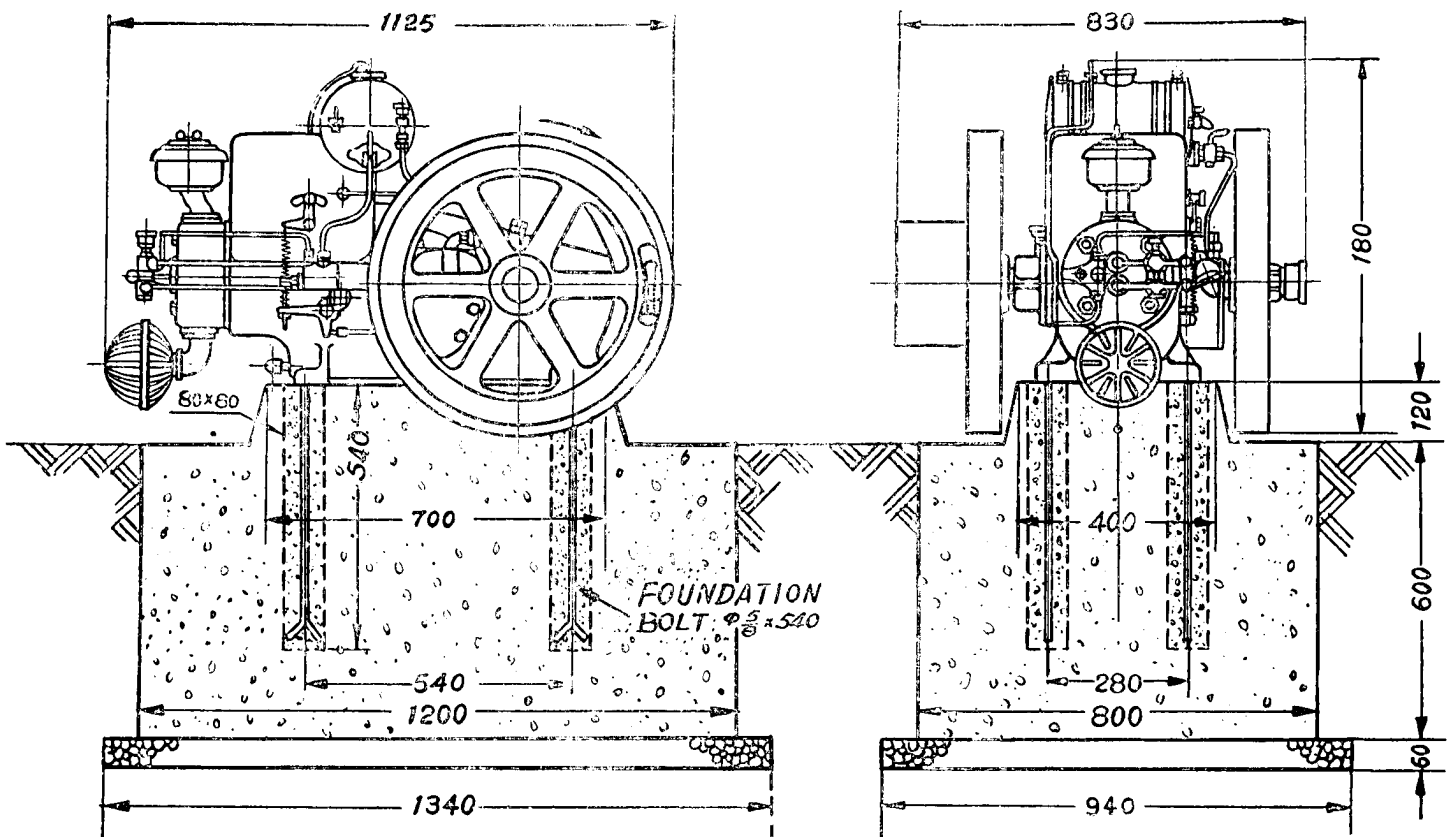
22-27 double wrench 1 „

32 open end wrench 1 „

8" Monkey wrench 1 „

6" Screw driver 1 „

Piston ring 1 „



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

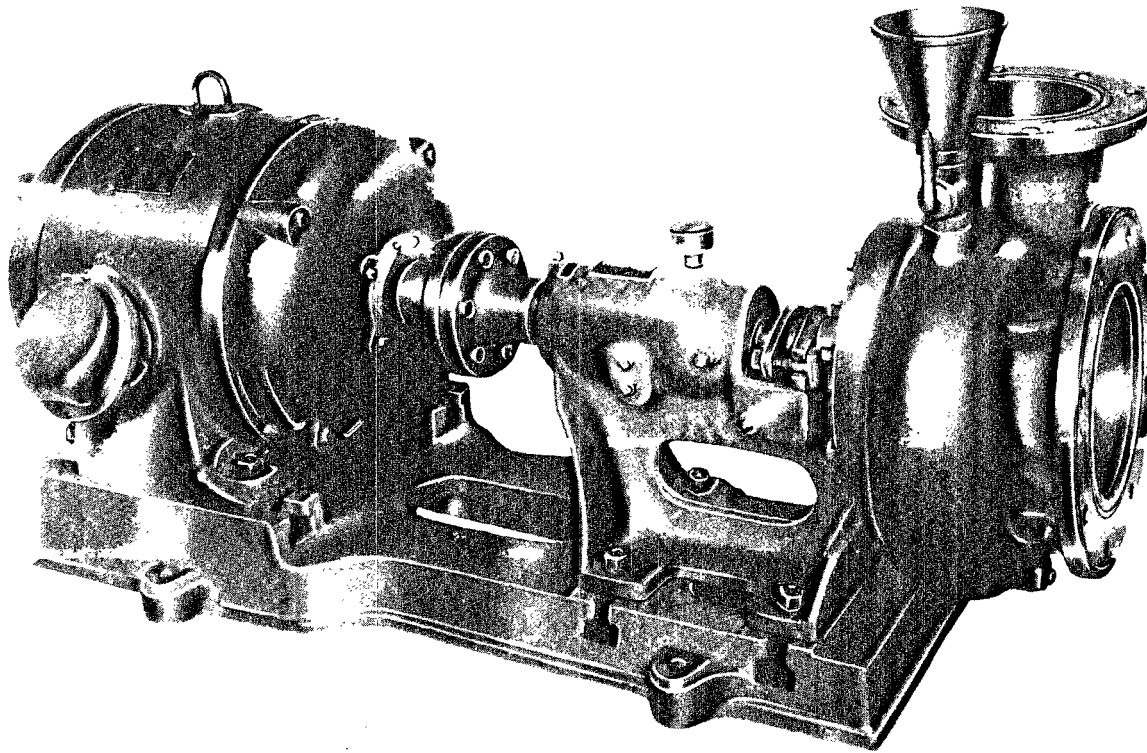
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离心式抽水机

Water Pump

Centrifugal Type



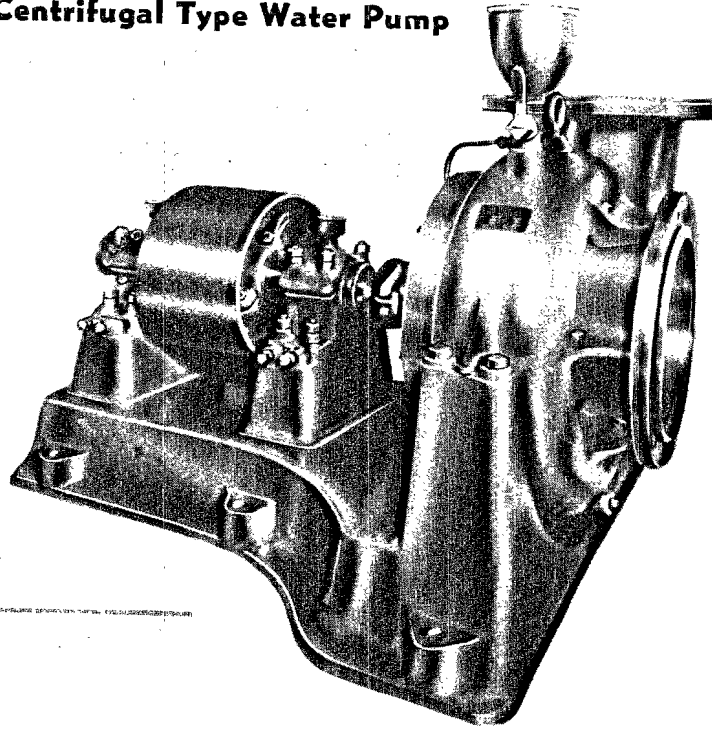
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14" Centrifugal Type Water Pump

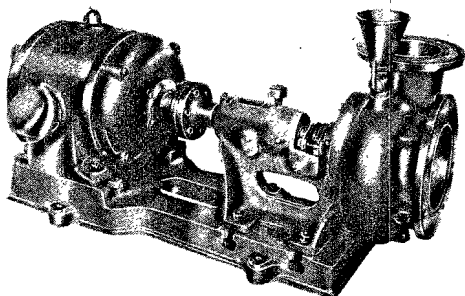


INTRODUCTION

Water pump is a kind of Machinery for pumping water from a lower level up to a higher level. Mines, Factories, Fundamental Constructions use water pumps for transporting water, supplying water and displacing water. Agricultural productions also utilise water pumps to fight against nature disasters.

There are many kinds of Water Pump, but the most effective and of widest usage ones are the Centrifugal Type Water Pumps. The main advantages of the Centrifugal Pumps are as follows:

- (1) Simple and strong construction.
- (2) Low cost of manufacture.
- (3) Easily transportable.
- (4) Easy handling and operation.
- (5) Low cost of maintenance.
- (6) Stoppages and non-functioning can hardly occur.
- (7) High pressure and great capacity.



Centrifugal Type Water Pump with Motor

TABLE FOR ACCESSORIES

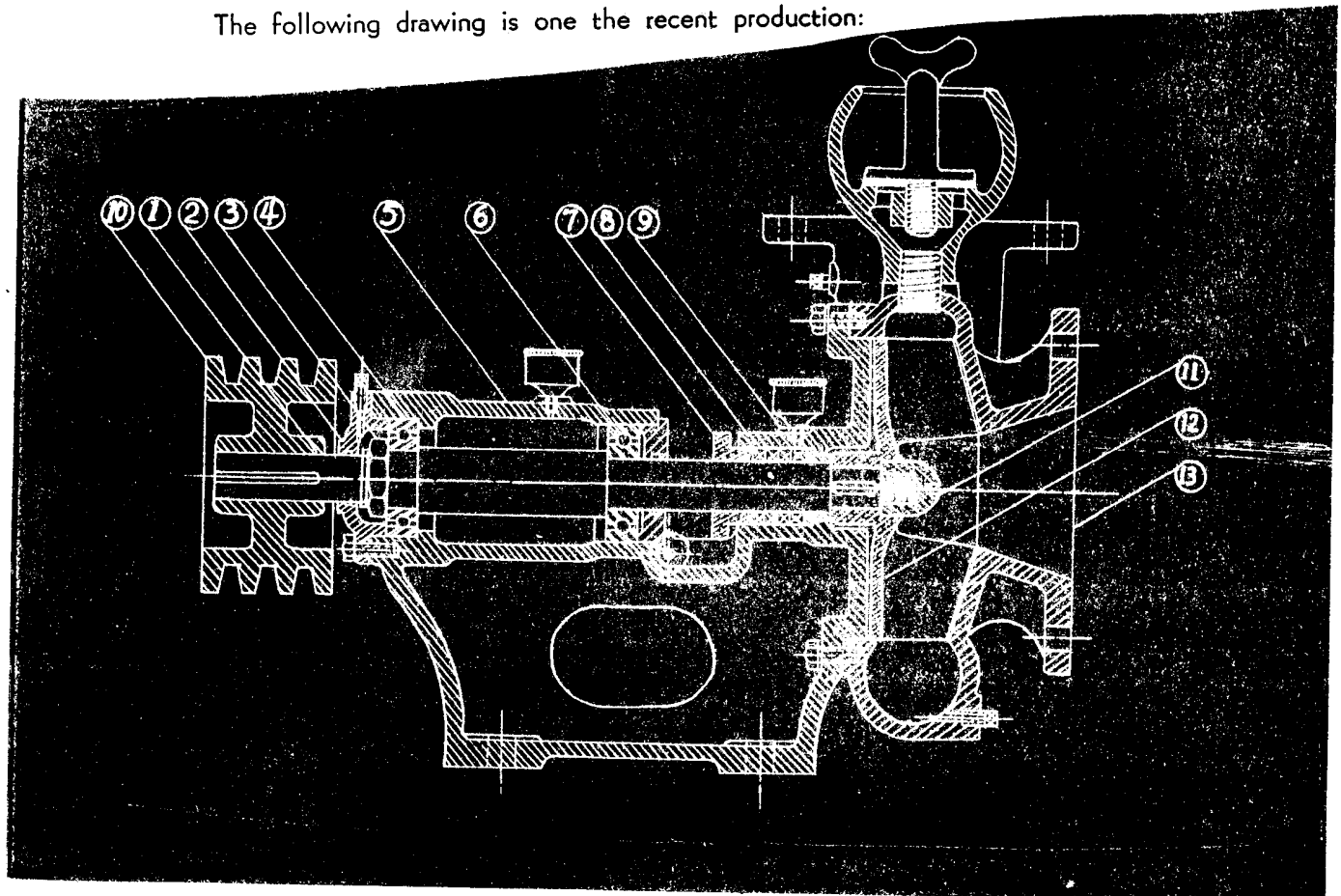
Part No.	Nomenclature	Material	No. of Pcs.	Remarks
1	Main Shaft	Mild Steel	1	
2	Bush Cover	Cast Iron	1	
3	Bush Check Nut	Mild Steel	1-2	
4	Ball Bearing	Hard Steel	1	Single Roll or Double Roll
5	Housing	Cast Iron	1	
6	Ball Bearing	Hard Steel	1	Single Roll
7	Stuffing Box Cover	Cast Copper	1	
8	Packing	Asbestos	3-4 Rolls	
9	Water Seal Ring	Cast Copper	1	
10	Priming Cup	Cast Iron	1	
11	Priming Cock	Cast Copper	1	
12	Impeller Key	Mild Steel	1	
13	Impeller Nut	Cast Copper	1	
14	Impeller	Cast Copper	1	
15	Pump Casing	Cast Iron	1	
16	Stuffing Box Liner	Cast Copper	1	
17	Sheaves	Cast Iron	1	
18	Sheaves Key	Mild Steel	1	
A	Rear Bearing Oiling Screw	Mild Steel	1	
B	Middle Oiling Screw	Mild Steel	1	
C	Front Bearing Oiling Screw	Mild Steel	1	
D	Water Seal Screw	Mild Steel	1	
E	High Pressure Water Seal Screw	Mild Steel	1	
F	Standard Oiling Bevel Screw	Mild Steel	1	
G	Oil Drain Cock	Mild Steel	1	
H	Stuffing Box Water Drainage Cock	Mild Steel	1	
K	Pump Casing Drainage Cock	Mild Steel	1	

Centrifugal Type Water Pump Size and Its Character

Pump Size	Diameter		H.P.	R.P.M.	Gal./Min.	Total Head In Ft.	Net Wt. Kg.	Equipments
	Inlet	Outlet						
2"	2½"	2"	3	1800	200	30	47	
3"	4"	3"	5	1800	350	40	79	∅ 4" Suction Valve 1 piece ∅ 4" 90° Elbow 1 piece
4"	5"	4"	8	1500	500	60	127	∅ 5" Suction Valve 1 piece ∅ 5" 90° Elbow 1 piece
5"	6"	5"	15	1500	600	60	154	∅ 6" Suction Valve 1 piece ∅ 6" 90° Elbow 1 piece
6"	8"	6"	20	1400	800	60	217	∅ 8" Suction Valve 1 piece ∅ 8" 90° Elbow 1 piece
8"	10"	8"	25	1000	1500	50	331	∅ 10" Suction Valve 1 piece ∅ 10" 90° Elbow 1 piece
10"	12"	10"	30	900	2500	50	574	∅ 12" Suction Valve 1 piece ∅ 12" 90° Elbow 1 piece
12"	12"	12"	35	900	3500	40	689	∅ 12" Suction Valve 1 piece ∅ 12" 90° Elbow 1 piece
14"	14"	14"	40	680	4200	30	1335	∅ 14" Suction Valve 1 piece ∅ 14" Elbow 1 piece
16"	16"	16"	55	600	6000	30	1795	∅ 16" Suction Valve 1 piece

The Construction of the Water Pump of Centrifugal Type.

The constructions of various specifications of the Centrifugal Water Pump manufactured by the factory are all in one of the same model. The following drawing is one the recent production:



3" Centrifugal Type Water Pump

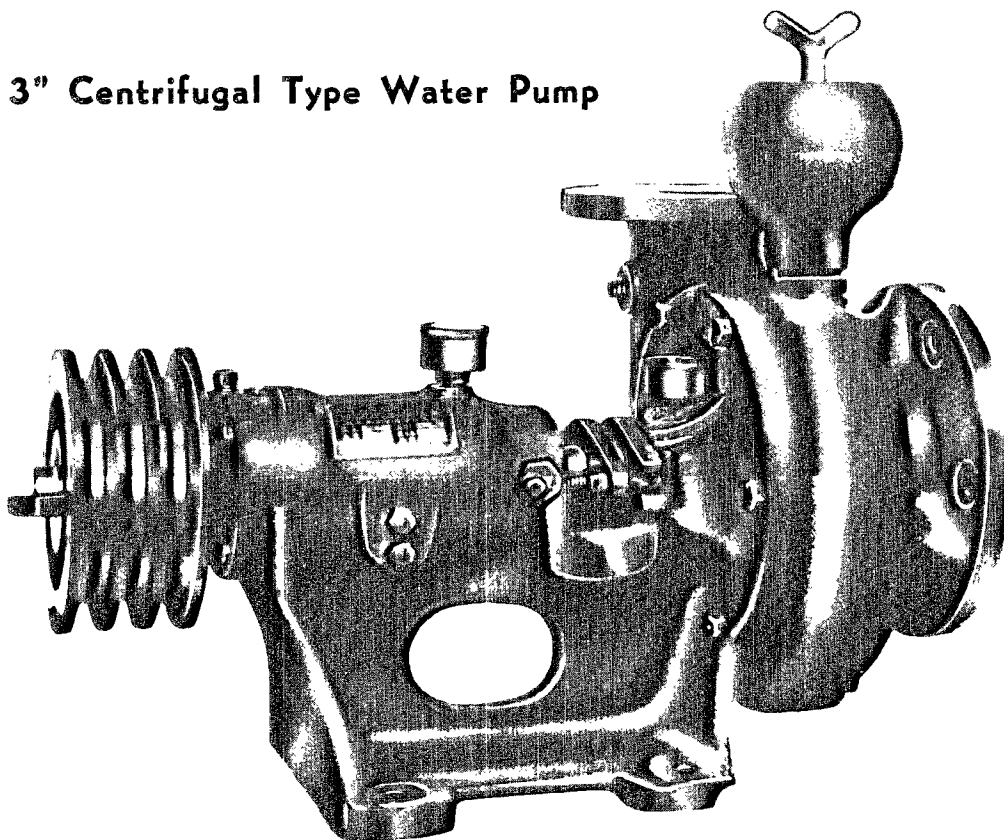


TABLE FOR "V" BELT DRIVEN

Pump Size	H.P.	R.P.M.	Sheaves Dia. 4"		Sheaves Dia. 6"		Sheaves Dia. 8"	
			V Belt Speed Ft.	No. of Belt	V Belt Speed Ft.	No. of Belt	V Belt Speed Ft.	No. of Belt
2"	3	1800	1800	B-2	2700	B-1	3600	A-2
3"	5	1800	1800	B-3	2700	B-2	3600	A-3
4"	8	1500	1500	C-3	2200	B-4	3000	A-4
5"	15	1500	1500	C-4	2200	C-3	3000	B-5
6"	20	1400	1400	C-5	2100	C-4	2800	C-3
8"	25	1000	1000	D-5	1500	C-7	2000	C-5
10"	30	900	900	D-6	1350	D-4	1800	D-3
12"	35	900	900	D-7	1350	D-5	1800	D-4

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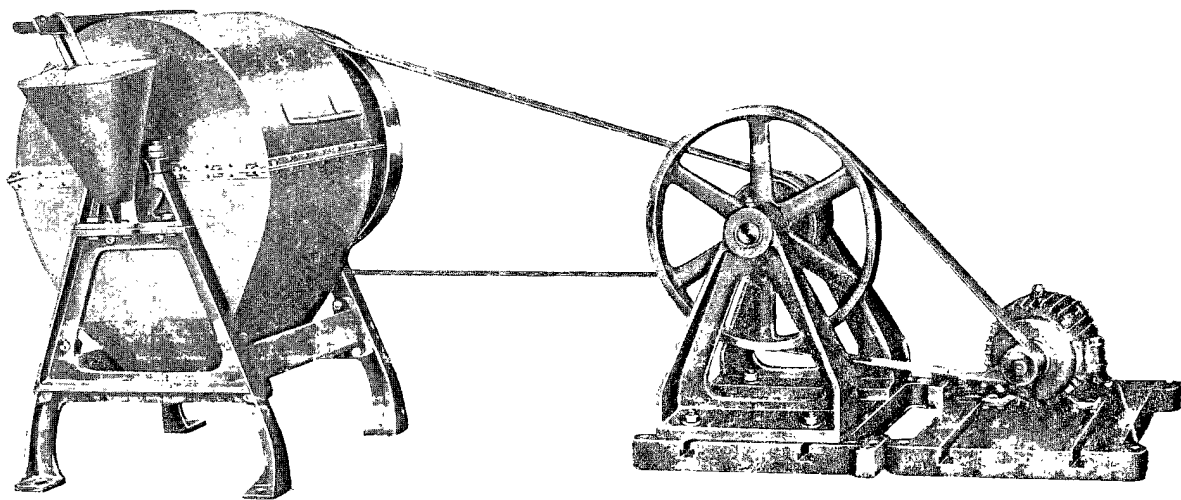
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Ball Mill

MODEL 612-550X450

球磨機



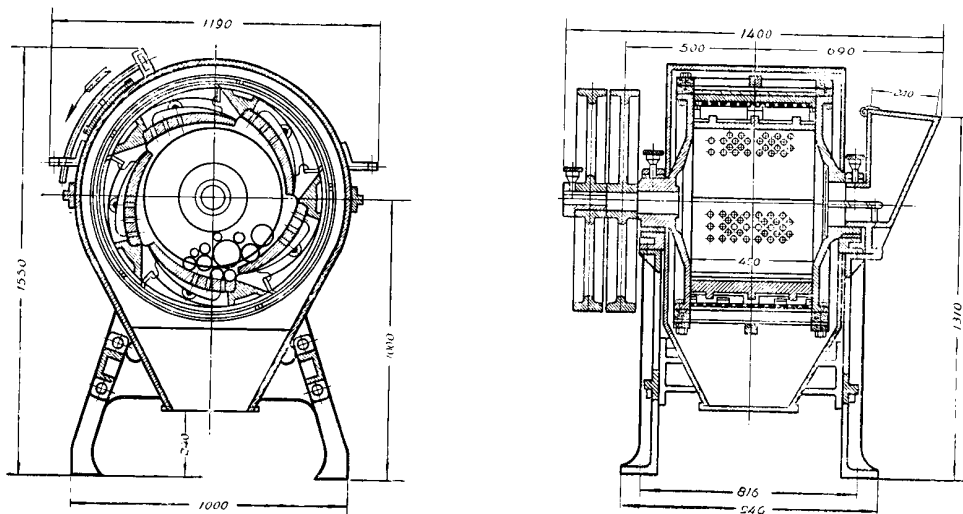
中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)
ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA
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BALL MILL

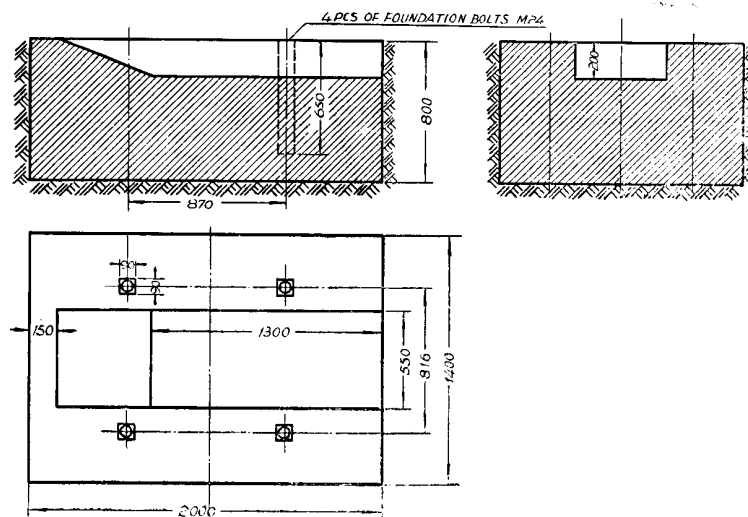
Model 612—550x450

This Ball Mill type 151, equipped with screen, is used for grinding coal, coke, graphite, and clay. It is one of the foundry equipments.

The Mill comprises a drum rotating round a horizontal shaft. In the drum are steel balls and material to be ground. When the drum rotates, the steel balls are repeatedly brought up to a certain height, fall, and crush the material. The drum is composed of two discs and five segments which are assembled between the discs in staircase manner to form the drum surface. The material, having been ground, passes through the numerous holes in the segments onto the screen where it is sieved. The grains which are unable to pass through the screen are returned through space between the segments back to the drum.



SPECIFICATION

[illegible]

N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

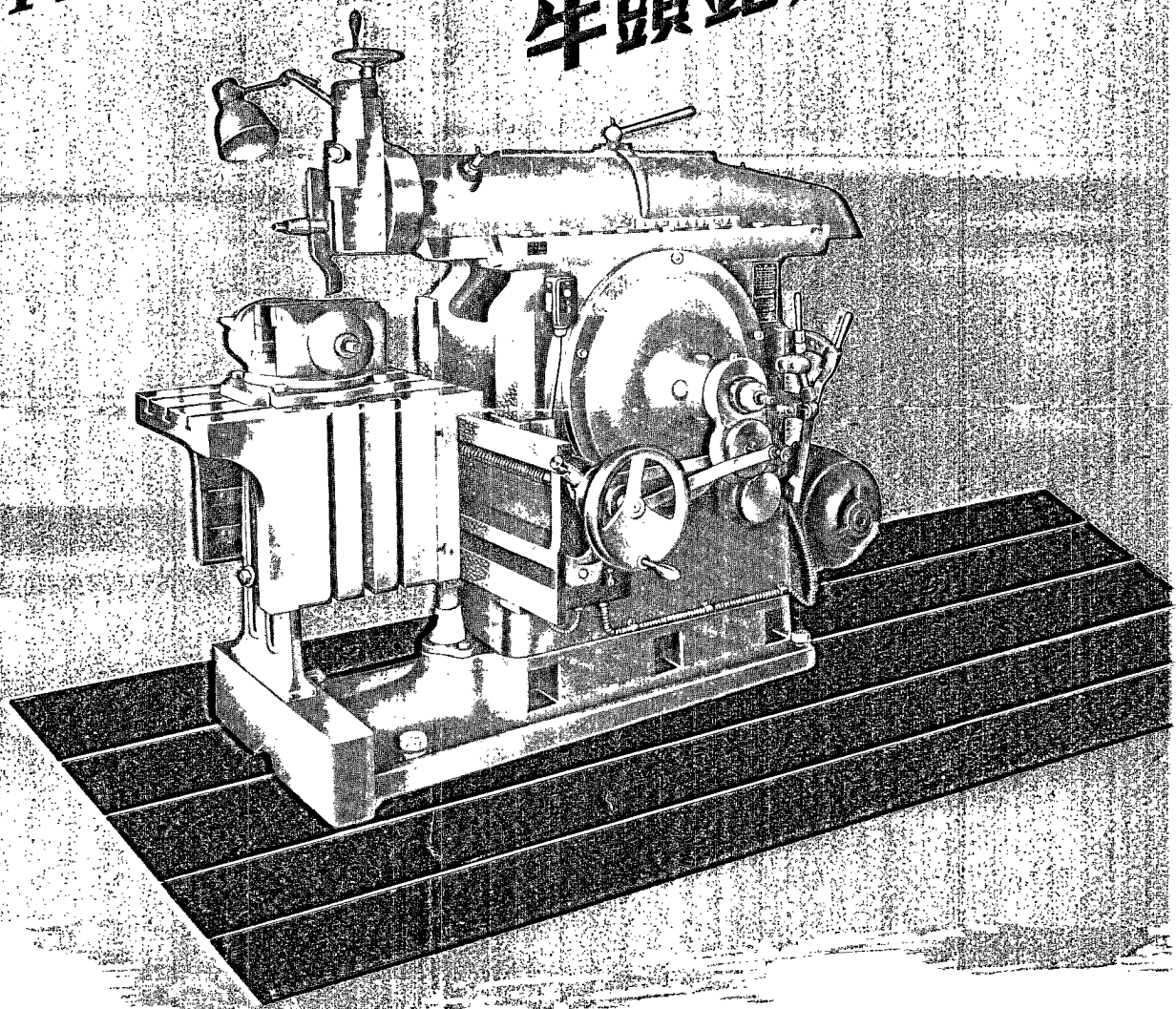
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Sparver
MODEL B 665

25X1

牛頭鉋床



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SHAPER MODEL B665

This machine is suitable for shaping plane and formed surfaces of workpieces for small scale production.

The machine is driven by an individual motor.

The ram and tool head are actuated by a crank mechanism. The tool head can be swivelled and the vertical feed of the tool slide is effected by hand.

The horizontal traverse of table is effected either by power or manually, while the vertical traverse is actuated only by hand. The horizontal feed of work table is regulated by ratchet wheel mechanism.

Accessories attached with the machine:—

1 set — Plain vice of 240 mm width.

1 pce. — Socket wrench.

3 pcs. — Hook wrenches.

SPECIFICATION

Max. stroke of ram 650 mm.

Max. distance between lower edge of
ram and table 370 mm.

Max. distance from tool bottom to
machine bed (overhang) 700 mm.

Table (L x W):—

Top 550 x 450 mm.

Side 450 x 400 mm.

Saddle of table 450 x 400 mm.

Max. travel of table:—

Horizontal (power or manual) 600 mm.

Vertical (manual) 300 mm.

Max. size of shank (W x H) 20 x 30 mm.

Max. adjustment of ram (each side of centre) . . .	± 250 mm.
Max. swivel of tool head	± 20°
Max. vertical travel of tool head (manual)	175 mm.
Max. swivel of tool head	± 60°
No. of strokes of ram per minute	12.5; 17.9; 25; 36.5; 52.5; 73.

Table horizontal feed per stroke of ram:

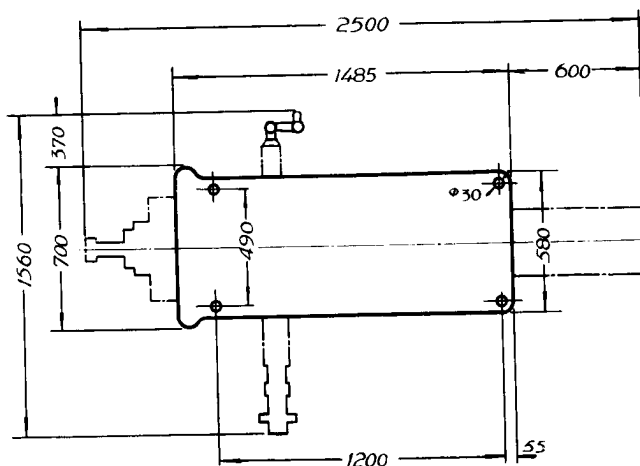
Min. (by turning each ratchet wheel tooth)	. .	0.33 mm.
Max. (by turning 10 ratchet wheel teeth)	. . .	3.33 mm.

Motor: 3-phase, A.C.

Power	. . . . .	3.5 KW.
Speed	. . . . .	960 rpm.
Overall dimension (L x W x H)	. . . . .	2060 x 1560 x 1750 mm.
Net weight	. . . . .	1850 kg. approx.

Remarks :

Swivel of tool head can be 60° when space between tool and guideway is not smaller than 10 mm., otherwise, only 20° can be obtained.



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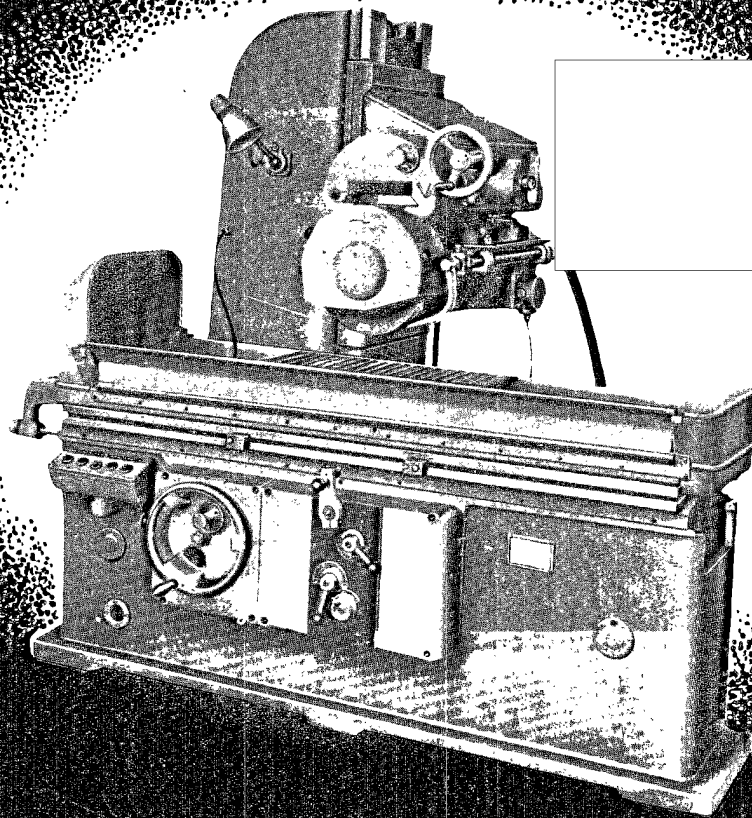
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25X1

平面磨床

*Hydraulic Surface
Grinding Machine*

MODEL M7130

中國機械進口公司

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(IMPORT — EXPORT)

ER-LI-KOW, SHIH-CHIAO, PEKING, CHINA

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HYDRAULIC SURFACE GRINDING MACHINE

Model M7130

This machine is suitable for grinding plane surfaces of various machine parts (with the circular face of grinding wheel) held either on the table or electromagnetic chuck.

The machine is provided with three electric motors. All push-buttons are concentrated on the front side of machine.

The longitudinal travel of table is hydraulically actuated, whereas the cross feed of wheel head may be operated either hydraulically or manually.

The cross feed of wheel head may be set to operate continuously or intermittently. The amount of intermittent cross feed and the speed of continuous feed are controlled by a valve in the hydraulic system.

The vertical feed of the wheel head is accomplished by hand.

SPECIFICATION

1. *Workpiece:*
 Max. dimension of workpiece
 ground (L × W × H) 1000 × 300 × 400 mm.
2. *Table:*
 Working surface of table
 (L × W) 1000 × 300 mm.
 Travel of table (hydraulic):
 Min. 200 mm.
 Max. 1175 mm.
 Spindle axis to working surface of table:
 Min. 126 mm.
 Max. 575 mm.
3. *Wheel Head:*
 Max. movement of wheel head:
 Cross (hydraulic or manual) 350 mm.
 Vertical (manual) 400 mm.
 Diameter of grinding wheel:
 Min. 250 mm.
 Max. 350 mm.
 Width of grinding wheel 40 mm.
4. *Machine mechanism:*
 Wheel head spindle speed 1440 rpm.

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